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Rio Blanco Oil Shale Company

MODULAR DEVELOPMENT PHASE
MONITORING REPORT TWELVE

January – June 1983

Mid-Year Report

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RIO BLANCO OIL SHALE COMPANY
MODULAR DEVELOPMENT PHASE
MONITORING REPORT 12

January - June 1983
MID-YEAR REPORT

Prepared by:
RIO BLANCO OIL SHALE COMPANY
DENVER, COLORADO

September 30, 1983

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1. INTRODUCTION

The United States Department of the Interior/Geological Survey (USGS) initiated planning in 1969 for a prototype oil shale leasing program. Under this program, Gulf Oil Corporation and Standard Oil Company (Indiana) acquired the rights to Federal Oil Shale Lease Tract C-a in the Piceance Basin in northwest Colorado in 1974. These two companies are developing Tract C-a under a general partnership called the Rio Blanco Oil Shale Company (RBOSC).

RBOSC has been engaged in extensive environmental data collection programs since its inception in 1974. Environmental baseline data were gathered between October 1974 and September 1976. An interim environmental monitoring program was conducted between September 1976 and August 1977, a period during which the Tract C-a lease was suspended. RBOSC initiated the Modular Development Phase (MDP) of tract development and the MDP Environmental Monitoring Program in August of 1977.

The MDP Environmental Monitoring Program was designed to provide data on air quality, meteorology, visibility, terrestrial ecology, aquatic ecology, hydrology, and specialized topics dealing with ecological interrelationships and impact mitigation. The program was designed based on the environmental stipulations in the Tract C-a lease, analysis of baseline and interim monitoring data, assessment of probable development impacts, and inputs from the Mineral Management Service-Oil Shale Office (OSO), now the Bureau of Land Management, Oil Shale Branch (BLM). Monitoring is presently conducted according to the MDP Lease Suspension Period Scope of Work (SOW) Revision 7.0, which reflects the reduced level of activity at Tract C-a.

Data collected through the Lease Suspension Period Environmental Monitoring Program are reported semi-annually, in a mid-year data report and a year-end analytical report to the BLM. This report is the twelfth MDP Monitoring Report (MDP 12), and covers the period from January-June 1983.

Major responsibility for monitoring program activities rests with personnel in the RBOSC Environmental Affairs Department. Several consultants were

used in various capacities during this reportiong period, however. They include: Chadwick & Associates (aquatic studies), USGS (surface water gaging station program) and CORE Laboratories (water chemistry analysis).

Monitoring Report 12, the sixth mid-year data report, presents the data collected for the six-month period January-June 1983, brief discussions and comparisons with previous data where appropriate, and notations on any impacts which may have been caused by initial development activities.

This report is divided into two sections, a brief text and appendices. The text summarizes the data, while the appendices present the data collected during the reporting period.

2. ATMOSPHERIC STUDIES

Air Quality

Air quality data were collected from January through June 1983 at Site 1. Plots of these data are presented in Appendix 2-1. Virtually all of the sulfur dioxide, hydrogen sulfide, nitric oxide, nitrogen oxides and carbon monoxide data had extremely low concentrations typical of air quality at a remote site, with the monitors measuring concentrations at or below the threshold of the instruments. Concentration of ozone at Site 1 ranged from 0.027 ppm to 0.073 ppm, well below the National Ambient Air Quality Standard (NAAQS) for ozone of 0.12 ppm.

Data on Total Suspended Particulates (TSP) were collected at Sites 1 and 3 during the January through June 1983 reporting period. The TSP data for this period are presented in Appendix 2-2. The highest TSP concentrations measured during this period were 33 ug/m^3 at Site 1 and 28 ug/m^3 at Site 3, well below the secondary NAAQS standard for TSP of 160 ug/m^3. The geometric mean concentrations were 7 ug/m^3 at Site 1 and 6 ug/m^3 at Site 3.

Meteorology

Meteorological data were collected from January through June 1983 at Site 1. These data are presented in Appendix 2-3. Although mean temperatures during the January-June period were very similar to the same period in 1982, the minimum temperature in 1983 was much higher than 1982 (-12.0 vs -26.2 C). Precipitation data collected during the first six months are presented in Appendix 2-4. The first six months of 1983 were much wetter than in 1982: approximately 11 inches of precipitation were recorded (near the annual average), compared to only 5 inches in 1982.

Visibility

The spring 1983 visibility monitoring program was conducted during May and June. The data will be presented and analyzed along with the data from the fall monitoring program in the year-end report.

Data Recovery

Data recovery for the six-month period was generally quite good. However, a lightning strike hit the Site 1 tower on May 16, causing severe damage to the meteorological instruments on the tower, and bringing down the entire monitoring station for several days. The overall data recovery for the period was still above 95 percent for the air quality parameters and 87 percent or above for most of the meteorological parameters. There were two exceptions: solar radiation, because the instrument was at the factory until early March being repaired from damage sustained during a lightning strike in late 1982; and dewpoint, because the instrument was virtually destroyed in the May 16 storm.

3. TERRESTRIAL STUDIES

Mule Deer Density

The calculated numbers of deer per square mile for each block in the mule deer study area around Tract C-a during the winter of 1982-83 are presented in Appendix 3-2. These calculations are based upon pellet group data from the spring 1983 count, which are presented in Appendix 3-1.

Since this study was begun in 1977, the highest estimated number of deer was 51 per square mile in the study area during the winter of 1977-78. Severe weather during the winter of 1978-79 caused a reduction in the deer density around Tract C-a due to high mortality from starvation and exposure. The deer density was down to 28 deer per square mile during the winter of 1979-80. The estimated winter deer density in the study area around Tract C-a has apparently increased during the last two years. Estimated densities for the winters of 1981-82 and 1982-83 were 32 and 37.5 deer per square mile, respectively.

Mule Deer Road Kill

Two deer road kills occurred along County Road 24 during the reporting period. An adult male was found at milepost 7.0 on February 10, and an adult female was found at milepost 1.2 on April 15. Deer road kills along County Road 24 will probably remain at low levels during the lease suspension period as long as the traffic flow remains light.

Threatened, Endangered, and Protected Species

Baseline, interim, and MDP environmental studies indicate that Tract C-a and the surrounding area does not provide critical habitat for any state or federally protected endangered wildlife species. The only species in these categories regularly observed in the vicinity of Tract C-a is the bald eagle. This species is occasionally seen foraging in the area and feeding on dead deer during winter months.

Golden eagles and other raptors protected in Colorado were seen during the reporting period. Some of these species are year-long residents and may nest in the area. No nests are known to occur near development activities.

Reclamation Success

Reseeded areas on and around Tract C-a were not monitored during the reporting period. Data on reclamation success will be collected in August 1983 and presented in the year-end report.

4. AQUATIC ECOLOGY STUDIES

Stream Physical Data (FWQ)

Field water quality measurements were made in April 1983 at three stations along the drainage system. Water temperature values ranged between 6.5° and 10°C, and were generally cooler than those values for April 1982. Stream pH values ranged between 7.1 and 8.2, while conductivity measurements ranged between 1,350 micromhos/cm at station CG-1 and 2,800 micromhos/cm on the Lower Yellow Creek station YC-2. Dissolved oxygen measurements ranged between 12.0 mg/l and 16.5 mg/l. These values are slightly above the ranges of data previously reported for these stations. Flow measurements at station CG-1 were 0.097 m^3/s, while the two Yellow Creek stations had flows of 0.080 m^3/s at the lower station YC-2, and 0.088 m^3/s at the upper station YC-1. These flows are greater than the flow data reported for April 1982. The higher flows are due to heavy spring runoff. No other major differences can be seen between these data and data collected in the baseline and previous MDP monitoring years. April field water quality data are reported in Appendix 4-1.

Water Chemistry Data

Basic water quality (BWQ) analyses were performed on samples collected at three monitoring locations. These data are presented in Appendix 4-2. No major differences in the cation or anion constituents from data previously reported are evident.

Benthic Macroinvertebrate Count Data

Benthic macroinvertebrate count data indicate that the number of taxonomic groups at station YC-2 remained very high, with 22 different taxa being identified. The species composition at station YC-2 was very similar to that reported for benthos collected in April 1982. Benthic count data and species composition at stations YC-1 and CG-1 were somewhat lower than those data reported for the April season in 1982. This may be the result of increased flow conditions due to heavy spring runoff. This slight decrease in taxonomic composition is of no concern, as natural variation in

stream habitat conditions occur at these two stations. Benthic data for April 1983 are presented in Appendix 4-3. In late May, a flood and mud flow occurred in the Corral Gulch system. This natural occurrence should change the benthic macroinvertebrate community structure for the rest of this field season.

5. HYDROLOGY

Field Data

Field data collected during the January through June 1983 period was evaluated by comparing these field water quality observations with computed ten to ninety percent confidence limits for the 1980-82 data base. Water level observations, expressed as "depth to water" measurements, are compared to minimum/maximum values in the 1980-82 data base. Field data were collected according to the approved Scope of Work, Revision 7.0, January 1983. Field data are listed in Appendix 5-1.

a. Alluvial Aquifers

The depth to water readings observed in most of the alluvial aquifers were within the computed confidence intervals until late May to early June. During this time snow melt and heavy precipitation brought all water levels (depth to water) to new minimum values. The water levels remained high through the rest of the report period.

Drier conditions occurred in the GS-S28 shallow piezometers, which were completely dry during the report period. Well GS-S28D was also toward the upper end of its confidence range. In contrast the GS-S29 well continued to exhibit somewhat higher water levels, as seen in 1982.

Alluvial field water quality measurements were collected only from GS-S27S during the report period. Conductivity and temperature observations were within the 10-90% confidence range, while the pH values were toward the lower end of the range.

b. Upper Aquifers

Water level measurements of the upper aquifer during the reporting period were relatively constant, with the exception of CE-702U which exhibited an increased level compared to 1982 data. As previously observed, wells CE-709U and AM-2AU were at the upper end (greatest depth to water) of their confidence ranges. Increased water levels were observed in CE-707U and

GS-10U. These levels were higher than the 1980-82 values, while the CE-708U level was lower than its maximum value. A gradual elevation of water level was measured in wells GS-D1U and GS-D3U relative to 1982 levels.

All wells monitored after late May, when snow melt and precipitation were heaviest, show a marked increase in water levels and remained elevated through the end of the report period.

The field water quality observations of pH, conductivity, and temperature remained comparable to previous year's data. Exceptions to this were GS-MDP2CU, GS-D1U, GS-15U, and GS-M10U, all of which exhibited consistently lower pH values than the computed confidence intervals.

c. Lower Aquifer

The lower aquifer water level measurements were consistent with the 1982 observations. Well GS-15L exhibited a slightly lower pH value compared to the 1980-82 data.

d. Flumes

Four flumes were monitored in Box Elder and Corral Gulches during the report period. Field data are listed in Appendix 5-2. At the beginning of the report period, flows at the stations YBOXFL, YCOFL, YMET3, and YSEOFL were comparable to previous year's observations. Several factors precluded continual data collection. In January, the surface of YCOFL was frozen. Box Elder and Corral Gulches experienced heavy runoff due to snow melt and precipitation in late April, which silted in or washed out the flumes. The highest flow determined prior to this wash-out, 2640.7 gpm, occurred at YMET3, at the confluence of Box Elder and Corral Gulches. The flumes remained out of service throughout the remainder of the report period.

Conductivity and pH observations fluctuated during this period. Lower pH values relative to early 1983 were exhibited at YBOXFL, YCOFL, and YMET3 from mid-February until mid-April. The pH of YBOXFL was higher than the 90% confidence level after April. YSEOFL exhibited some lower than normal pH values, but was generally within the confidence range. The conductivity

values at YBOXFL and YMET3 from mid-April through June were below the 10% confidence level. Some low conductivity values were observed at YSEOFL during the report period and some very low conductivity values were observed at YCOFL in late February and early March.

e. Springs and Seeps

Field data for springs and seeps are listed in Appendix 5-2. Fluctuations occurred in field data collected from the springs and seeps compared with the 1980-82 10-90% confidence range. The observed pH values for SPG-MILL, SPG-14, and SPG-20 were at the low end or below the 10% confidence level, and the conductivities of SPG-MILL and SPG-14 were slightly below their 10% confidence level. Increased flow values were exhibited at SPG-14 and SPG-20, while SPG-MILL and SPG-4 showed lower flows than previous years. No data were collected from SPG-3, which was frozen in January and dry in April.

f. Other Field Data

Field data for the composite reinjection (YCOINJ), flume discharge (YFLDIS), and Jeffrey Pond (YJEFFPOND) are listed in Appendix 5-2. The field measurements of YCOINJ were relatively stable throughout the report period. Most of the conductivity values were near or over the 90% confidence level. A few of the pH values were at the low end or under the 10-90% interval, but most were within this range. An increase in temperature was observed in May and June.

The field measurements of YFLDIS were also stable throughout the report period. The pH of YFLDIS was toward the lower end of or under the 10-90% confidence range.

The Jeffrey Pond pH values were consistently below the 10% confidence level, ranging from 7.3 to 7.8 compared to the 8.0-8.3 computed interval. The conductivity, however, remained stable and within the confidence range.

g. USGS Gage Stations

The data are presented in Appendix 5-3.

Water Chemistry Data

Water chemistry data are listed in Appendix 5-4. Water chemistry data were evaluated by comparing data to computed 5-95% confidence range and maximum values based on the 1980-82 data base for each location. Water chemistry data falling outside the confidence bounds are listed in Table 1, Appendix 5-4.

a. Alluvial Aquifers

The majority of the water quality constituents monitored during this report period were comparable to previous year's data. Most of the exceedences of the alluvial aquifers were higher than the maximum values computed from the data base. The alkalinity of most of the alluvials was consistently high and the bicarbonate levels in GS-S28D, GS-S22, GS-S24 and GS-S27S were also relatively high. The well GS-S27S also exhibited a higher phosphate level, with one reading of 0.18 mg/l compared to a previous maximum reading of 0.13 mg/l, and a higher ammonia reading of 3.03 mg/l compared to a previous maximum observed concentration of 0.96 mg/l. Lower chloride levels than previous years were exhibited in wells GS-S22 and GS-S27S.

b. Flumes and Pond

Exceedences from the computed 5-95% confidence range occurred mostly at the Box Elder flume (YBOXFL). Total dissolved solids (TDS) values were somewhat higher than normal at this site, notably in April, with an observation of 1107 mg/l compared to a maximum of 1031 mg/l. Sodium levels were also slightly higher at YBOXFL with observations of 180 mg/l compared to a maximum of 170 mg/l. In contrast, the dissolved organic carbon values were lower than the 10% confidence level with values of 4 and 5 mg/l, compared to the previous minimum concentration of 6.5 mg/l.

The Jeffrey Pond, composite reinjection, and flume discharge showed no unusual water chemistry observations during the reporting period.

c. Upper Aquifer

Most of the water chemistry data in the upper aquifer were similar to the 1982 data, with the exceptions of GS-D1U and GS-D3U. In GS-D1U, the sodium and fluoride levels were consistently lower than the previous minimum values, while the calcium and silica levels were higher than previous year's observations. Alkalinity, potassium, bicarbonate, fluoride, and silica levels in GS-D3U were lower than the 10% confidence level in April. Total dissolved solids for this well were consistently higher than observed in previous years. Calcium, ammonia, and sulfates were also higher. Calcium levels exhibited in GS-D3U were 40 and 35 mg/l during this period compared to the previous maximum value of 28 mg/l. The high sulfate readings in GS-D3U for this period were 432 mg/l compared to the previous maximum value of 360 mg/l. Water from well GS-MDP2CU exhibited higher concentrations of potassium, sodium, chloride, and boron than were observed in previous years. The ammonia level in this well was higher, with a measurement of 0.65 mg/l compared to a 0.34 mg/l previous maximum value. CE-702U showed increased alkalinity and hardness in April relative to 1982, but other values were within the 10-90% confidence range.

d. USGS Gage Stations

These data are presented in Appendix 5-6.

6. SPECIAL STUDIES

Experimental Revegetation

Vegetation coverage was not estimated in the three experimental revegetation plots during the reporting period. Coverage estimates are scheduled to be made in August 1983, and will be presented in the year-end report. Soil moisture estimates taken during the period will be analyzed along with data on vegetation coverage in the year-end report.

Mule Deer Habitat Modification Study

No measurements were taken for this study during the reporting period. Vegetation coverage estimates will be made at the end of the 1984 growing season.

Shrub Growth Enhancement on a Simulated Mine Site and/or Disposal Pile Bench

Shrub growth measurements for May and June of the reporting period will be presented as part of the complete 1983 data set in the year-end report. Shrub survival generally seemed best on rows B and C on the bench, where highest moisture levels are expected. Some shrub species had not begun to put out foliage in May, and survival percentages may change when all data are considered. Analysis of shrub growth and subsoil moisture content by treatment on the simulated mine bench will be presented in the year-end report.

Study to Alter Natural Succession After Fire for Enhanced Deer/Livestock Forage

No measurements were taken in this study during the reporting period. Vegetation coverage estimates are scheduled to be made in August 1983, and will be presented in the year-end report.

APPENDICES

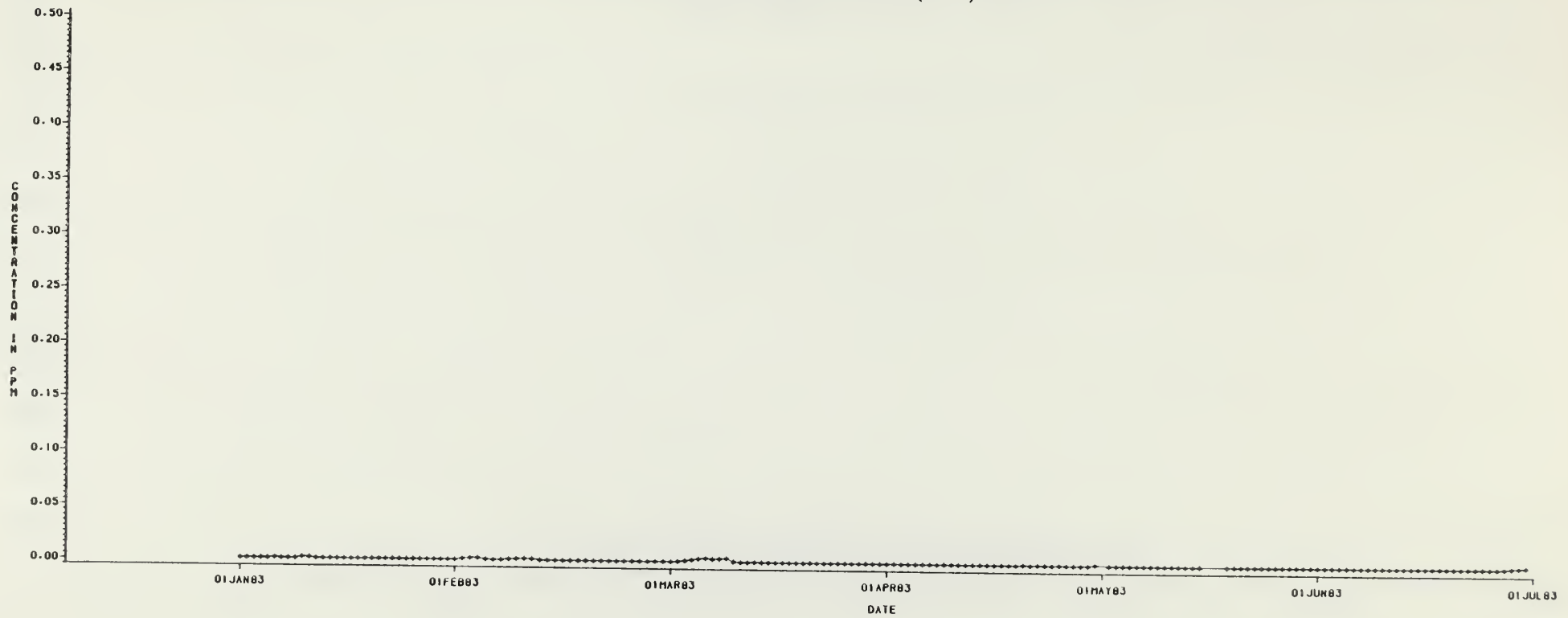
APPENDIX 2

Air Studies Data

APPENDIX 2-1

Plots of Air Quality Data at Site 1

RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
SULFUR DIOXIDE DATA (PPM) – SITE 1



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AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
HYDROGEN SULFIDE DATA (PPM) – SITE 1

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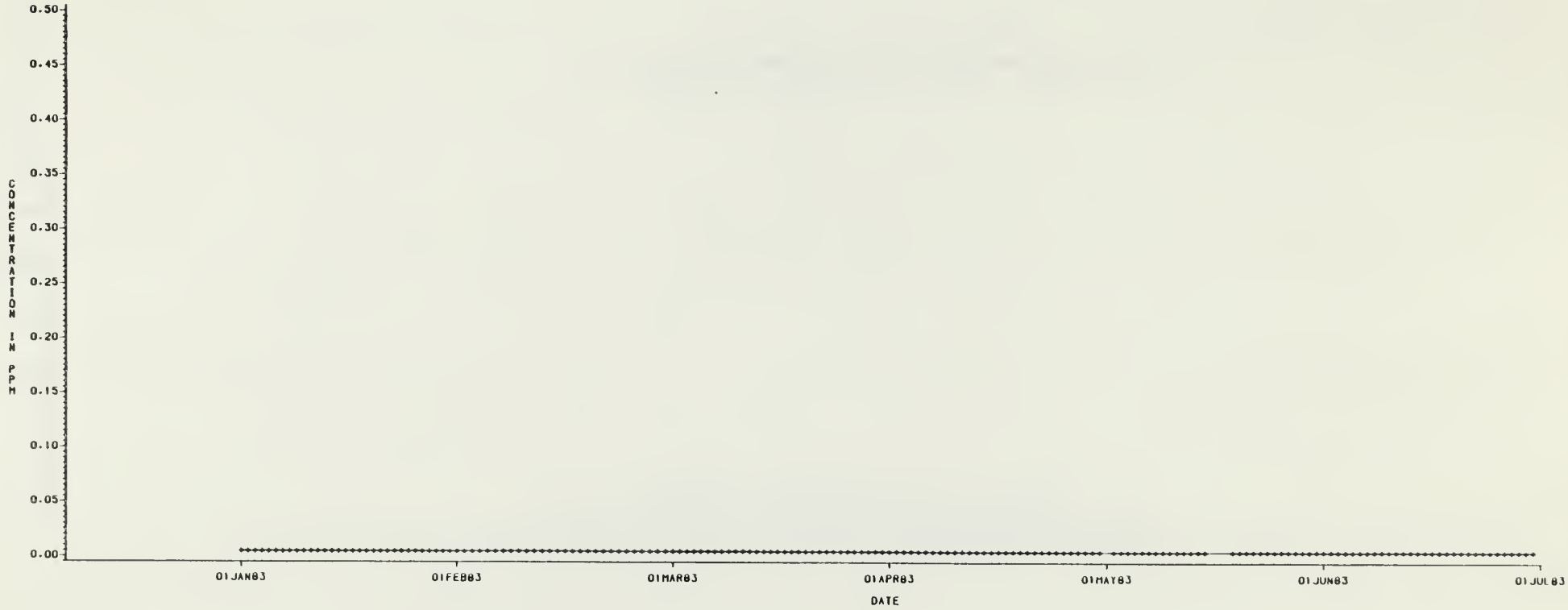
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
NITRIC OXIDE DATA (PPM) – SITE 1



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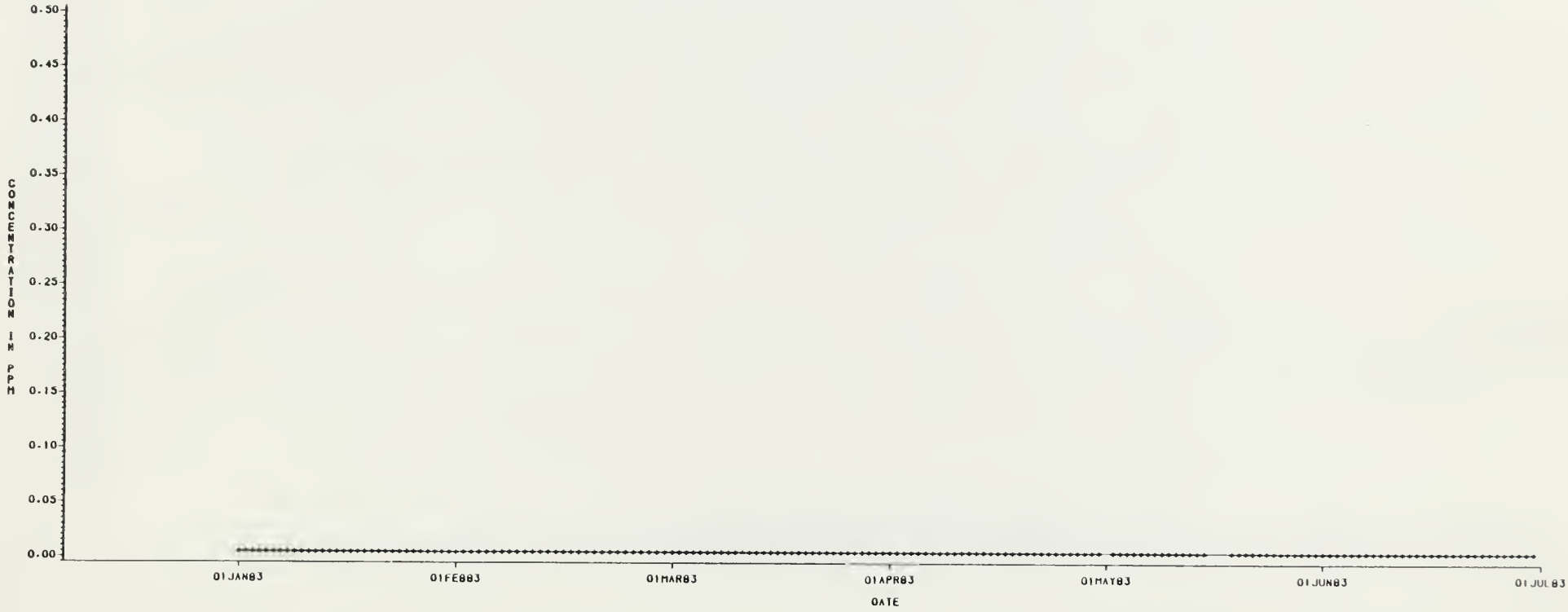
NITROGEN OXIDES DATA (PPM) – SITE 1



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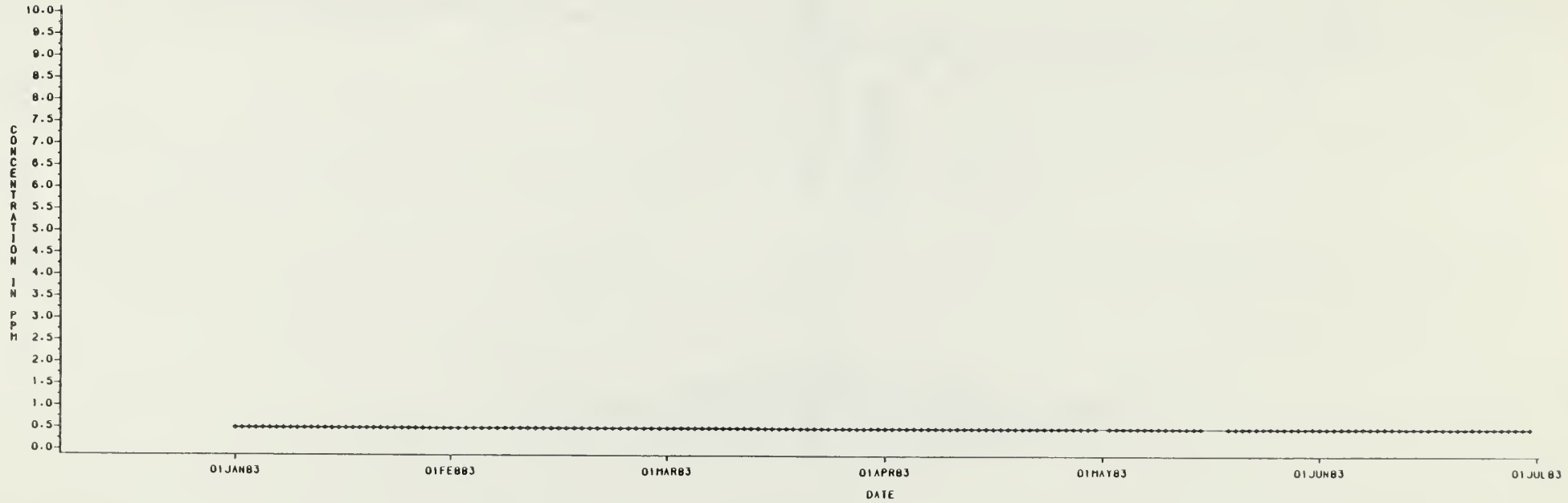
CARBON MONOXIDE DATA (PPM) – SITE 1



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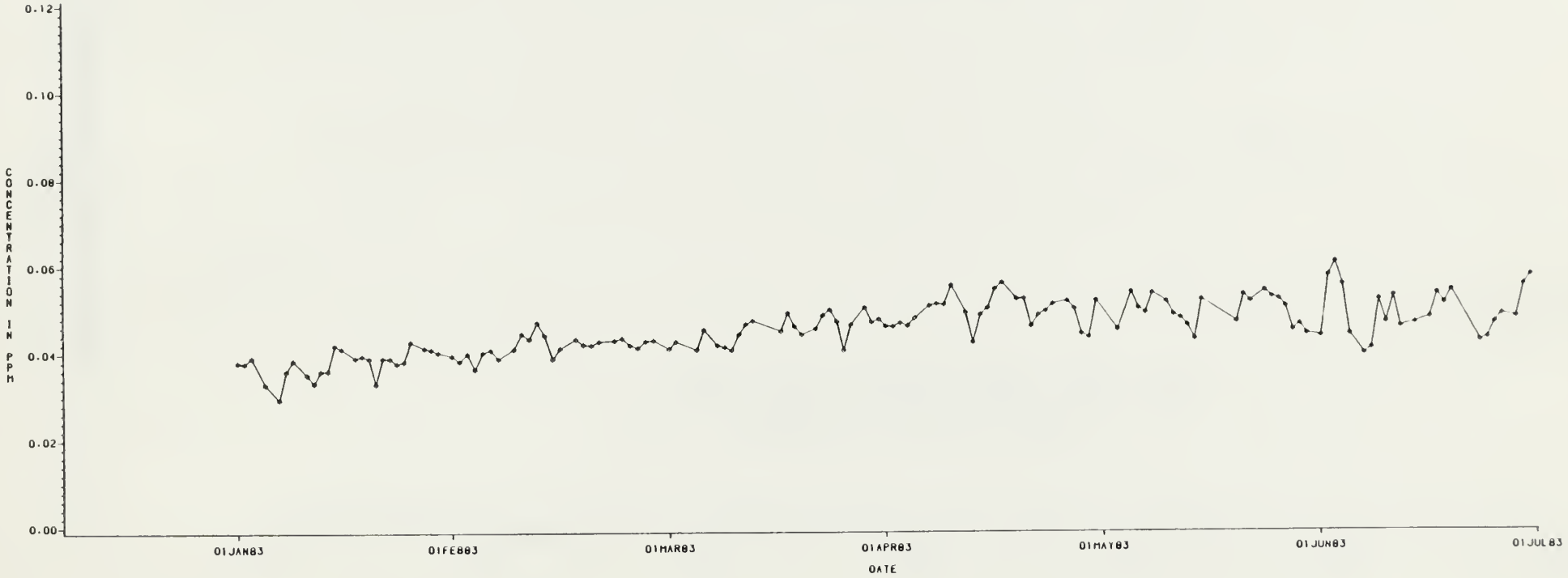
OZONE DATA (PPM) – SITE 1



APPENDIX 2-2

Total Suspended Particulate Data at Sites 1 and 3

TABLE 1
1983 RBOSC TOTAL SUSPENDED PARTICULATE CONCENTRATIONS

DATE	SITE 1	SITE 3
04JAN83	4	1
08JAN83	5	5
12JAN83	3	1
16JAN83	8	6
20JAN83	•	5
24JAN83	5	4
28JAN83	•	6
01FEB83	5	5
05FEB83	•	8
09FEB83	3	3
13FEB83	6	4
17FEB83	4	3
21FEB83	5	5
25FEB83	10	7
01MAR83	7	2
05MAR83	4	4
09MAR83	5	4
13MAR83	4	5
17MAR83	5	4
21MAR83	6	4
25MAR83	4	5
29MAR83	5	3
02APR83	•	3
06APR83	9	7
10APR83	16	14
14APR83	9	7
18APR83	17	18
22APR83	5	4
26APR83	8	9
30APR83	3	2
04MAY83	20	6
08MAY83	•	14
12MAY83	10	9
16MAY83	•	2
20MAY83	8	5
24MAY83	•	14
28MAY83	22	17
01JUN83	19	26
05JUN83	4	9
09JUN83	11	11
13JUN83	8	7
17JUN83	17	17
21JUN83	33	28
25JUN83	10	14
29JUN83	25	25

APPENDIX 2-3

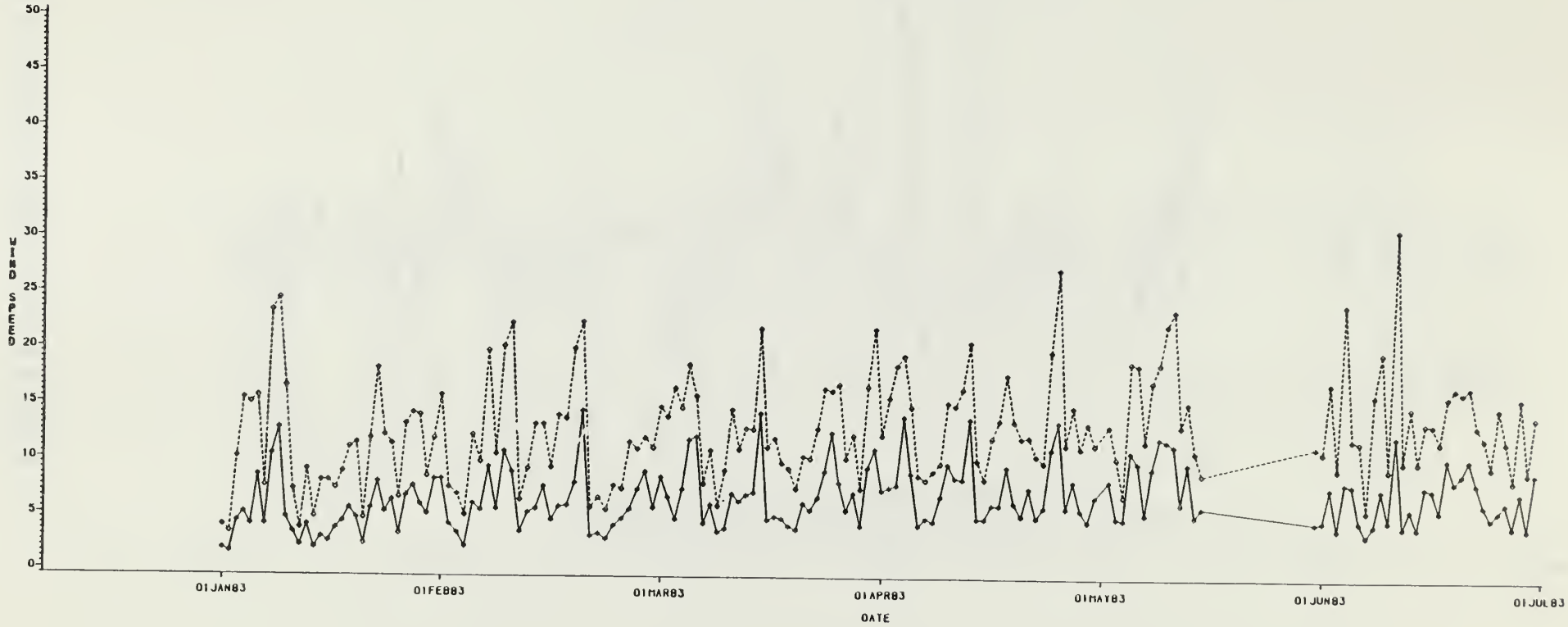
Plots of Meteorological Data at Site 1

Legend: Star symbol indicates 24-hr mean value

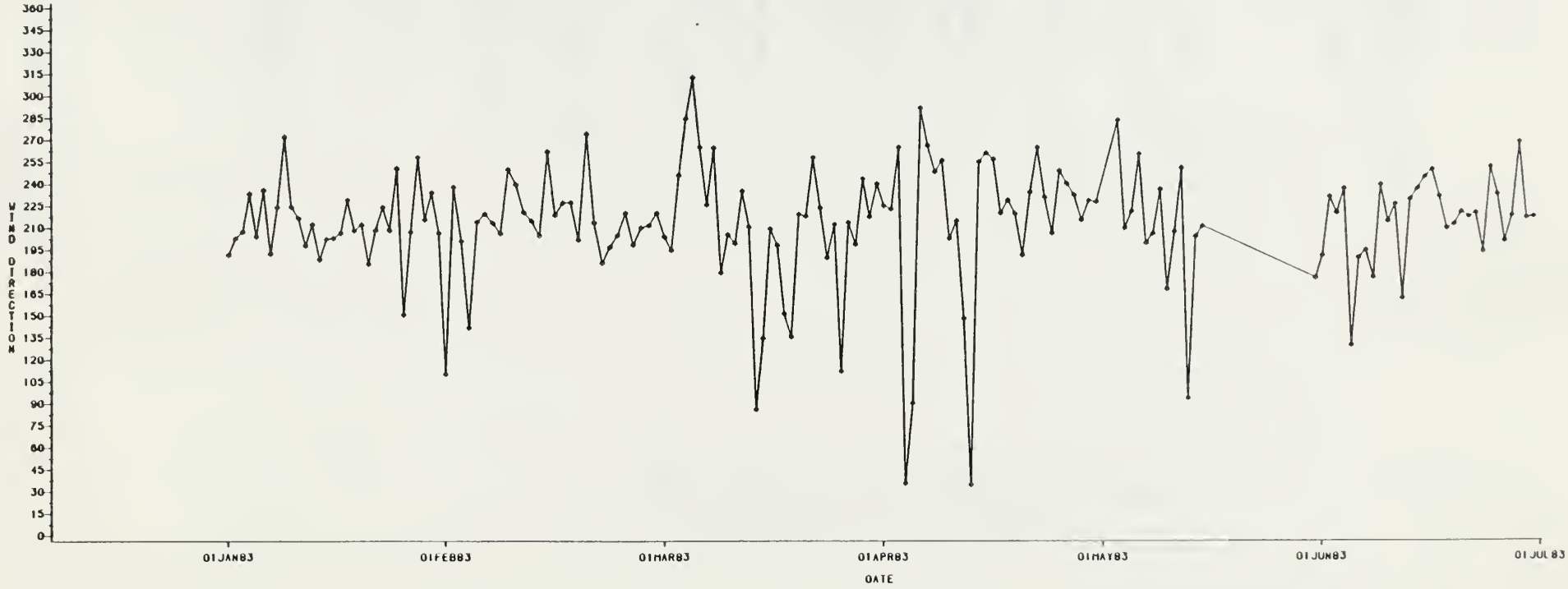
Diamond symbol indicates maximum one-hour value for a day for wind speed and temperature

Square symbol indicates minimum one-hour value for a day for temperature

RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
WIND SPEED (10 METER TOWER) – SITE 1



RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
WIND DIRECTION (10 METER TOWER) – SITE 1



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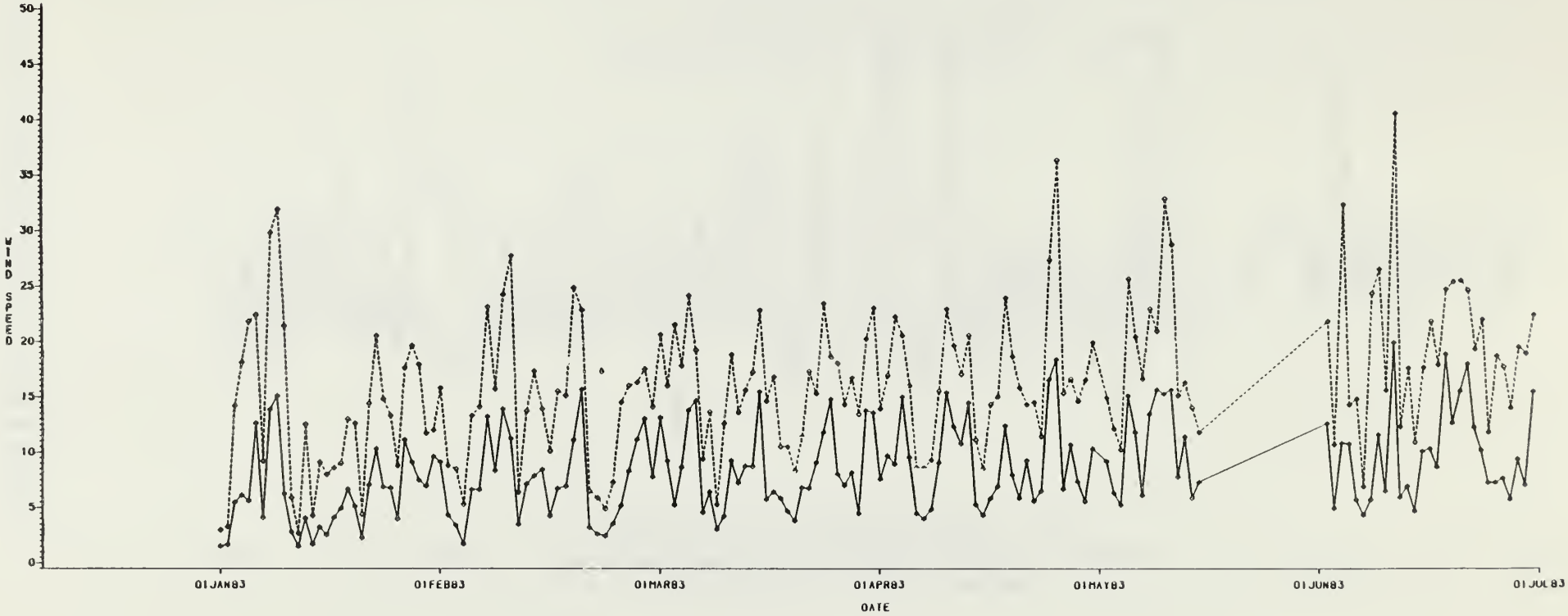
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
WIND SPEED (60 METER TOWER) – SITE 1



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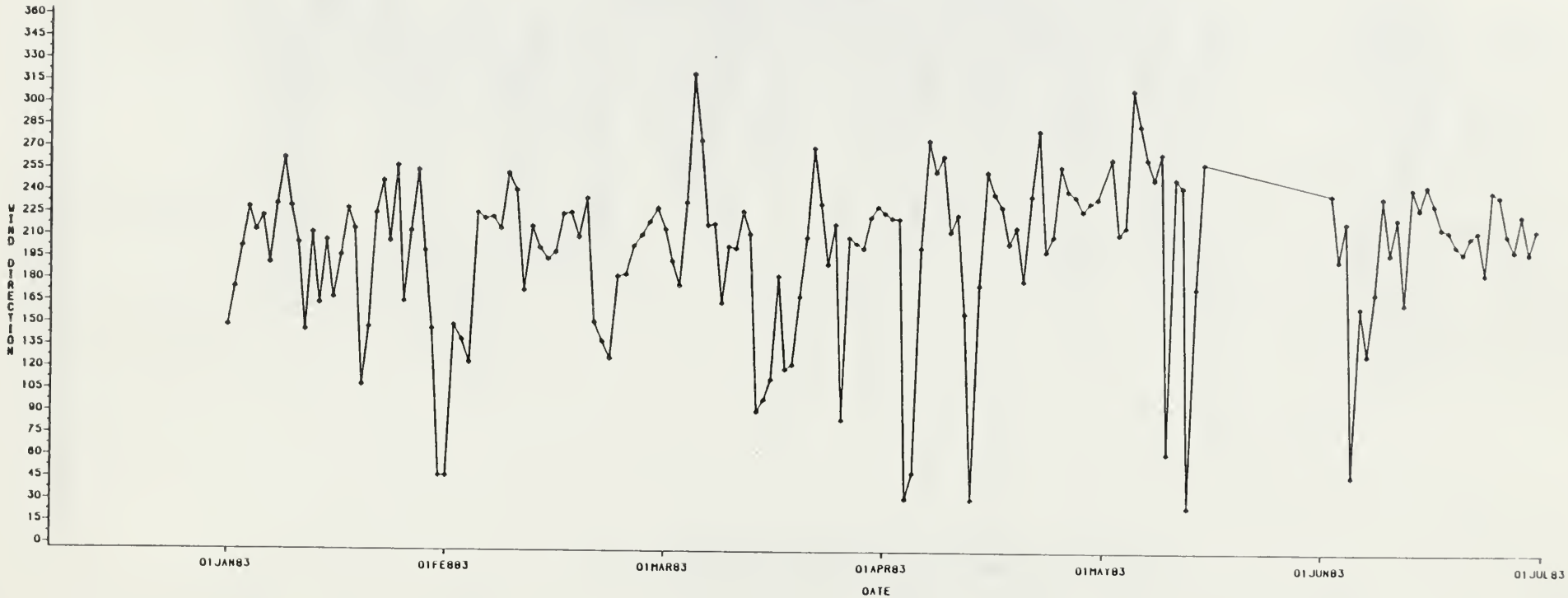
WIND DIRECTION (60 METER TOWER) – SITE 1



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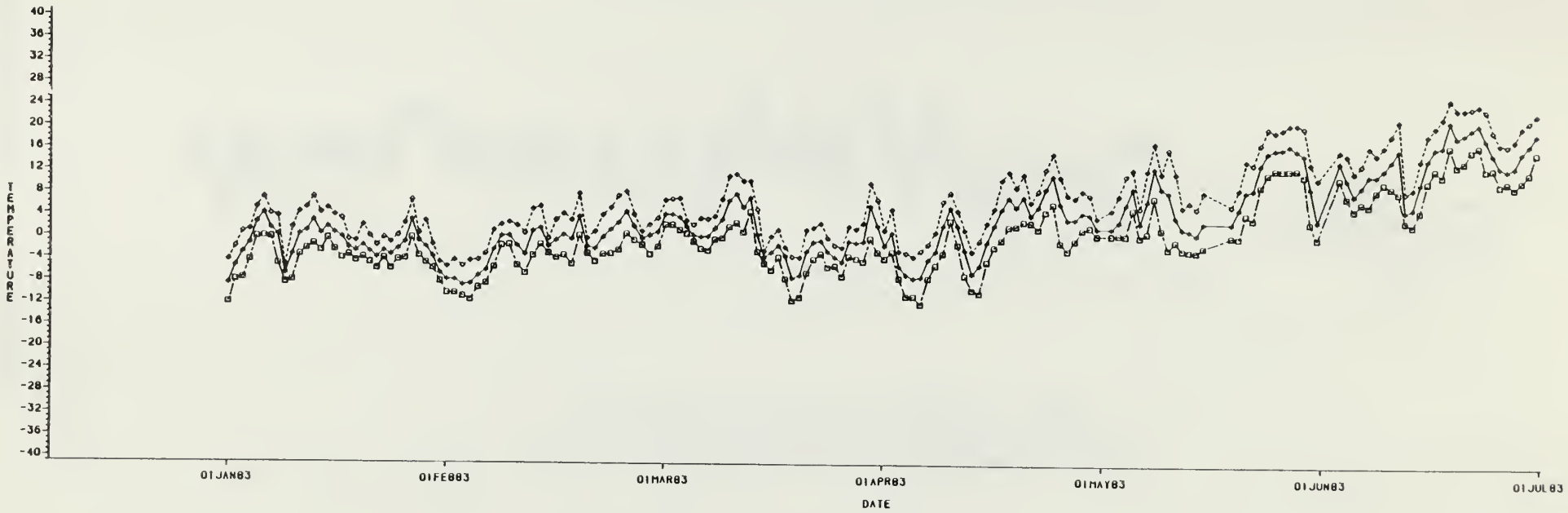
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
AIR TEMPERATURE (10 METER TOWER) – SITE 1



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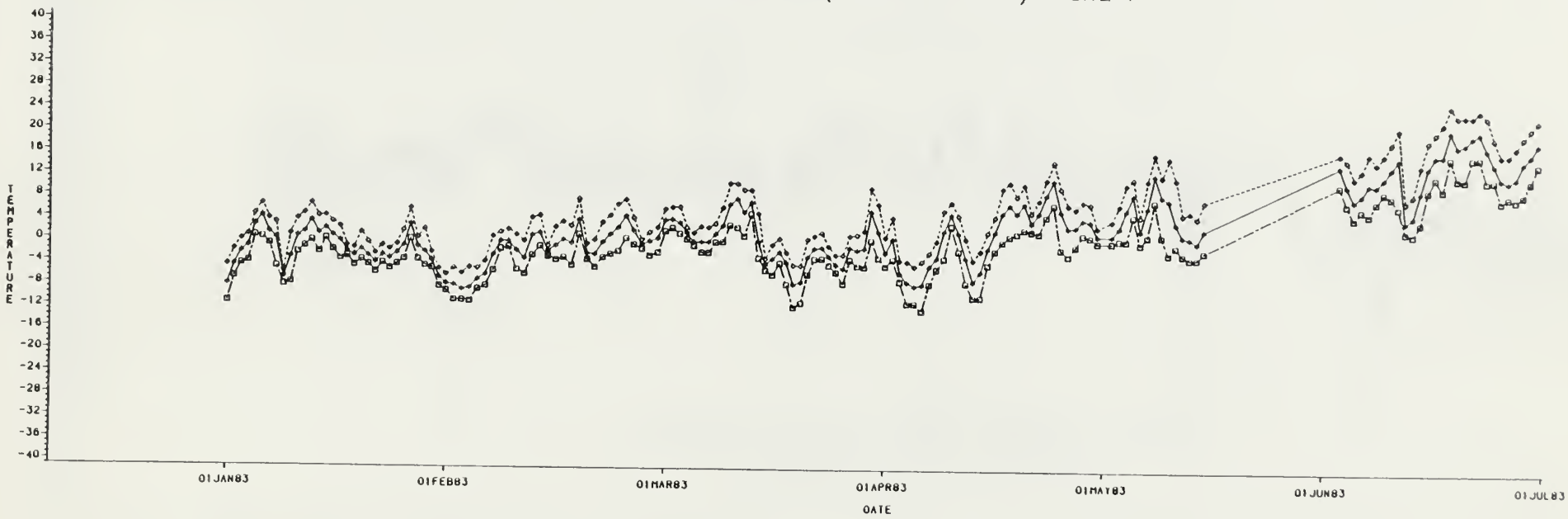
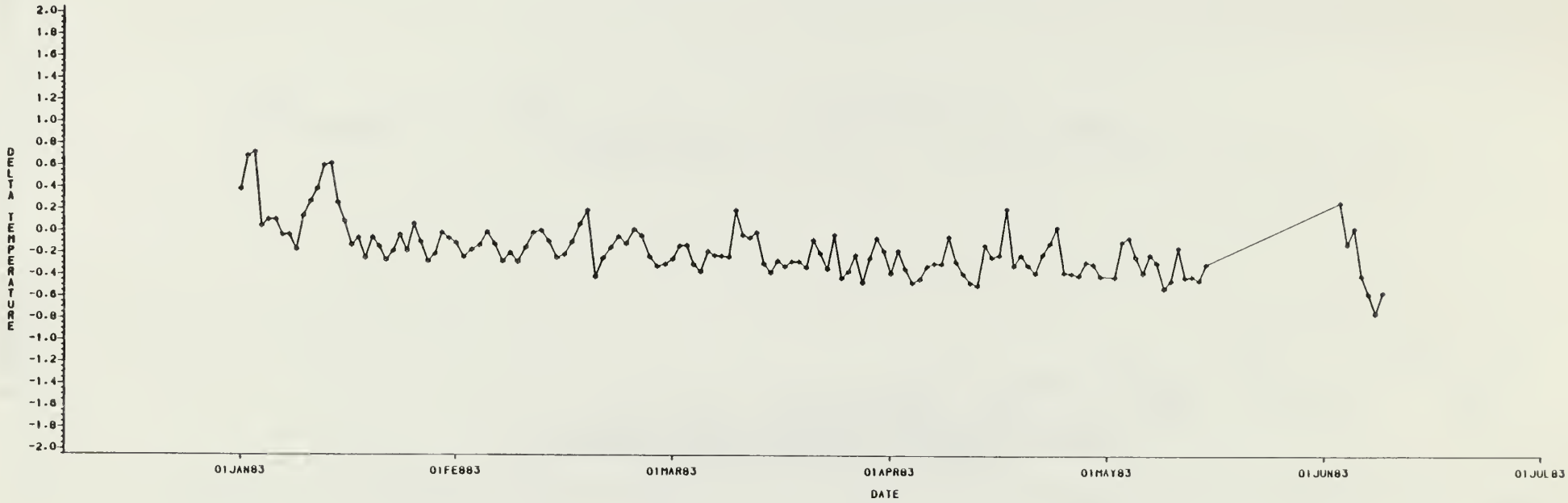
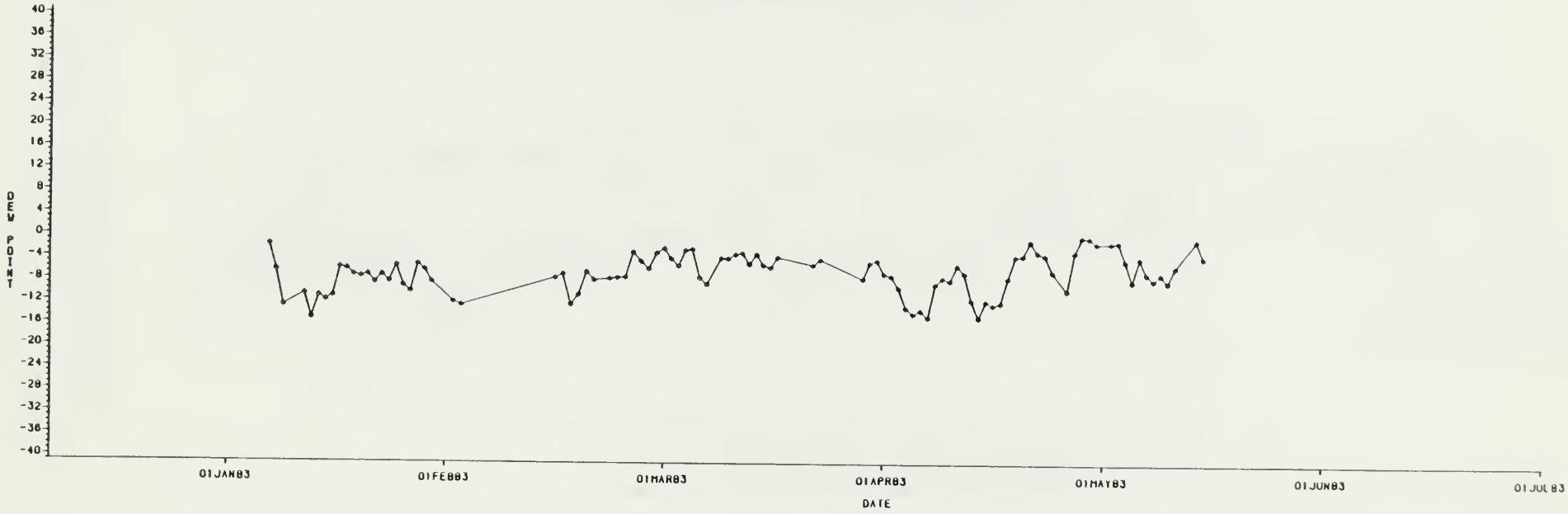
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
AIR TEMPERATURE (60 METER TOWER) – SITE 1



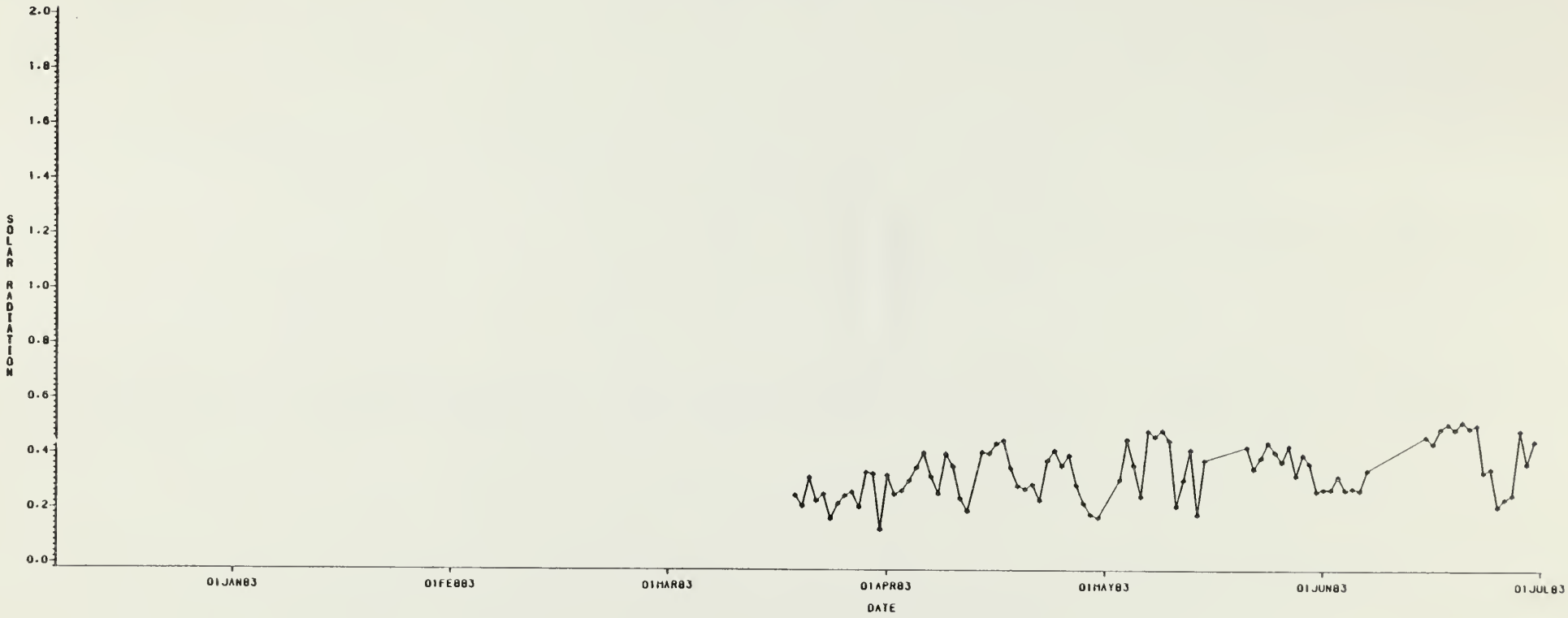
RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
DELTA TEMPERATURE (10 AND 60 METERS) – SITE 1



RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
DEW POINT (10 METER TOWER) – SITE 1



RIO BLANCO OIL SHALE COMPANY
AIR QUALITY AND METEOROLOGY MONITORING PROGRAM
SOLAR RADIATION MEASURED AT SITE 1



APPENDIX 2-4

Precipitation Data

Appendix 2-4

RBOSC Site 1 Precipitation Data (inches)
January - June 1983

Date	Weather Measure Tipping Bucket Gauge	Belfort Weighing Bucket Gauge	Wedge Gauge
1/7	0.01	0.03	0.02
1/9	0.00	0.03	0.00
1/17-1/18	0.07	0.08	0.09
1/23-1/25	0.07	0.21	0.18
1/30-1/31	0.04	0.06	0.06
2/5-2/9	0.12	0.31	0.25
2/13	0.01	0.04	0.06
2/19	0.16	0.19	0.12
2/25-2/28	0.15	0.29	0.25
3/4-3/5	0.09	0.20	0.11
3/12-3/16	0.50	0.62	0.49
3/17-3/18	0.36	0.43	0.29
3/20	0.02	0.04	0.12
3/22-3/25	0.32	0.66	0.40
3/28-3/29	0.07	0.15	0.18
3/31-4/3	0.52	0.69	0.37
4/8	0.04	0.05	0.01
4/11-4/13	0.29	0.56	0.32
4/18-4/21	0.19	0.24	0.24
4/27-4/30	0.70	0.77	0.88
5/1-5/3	0.66	1.72	1.33
5/6	0.08	0.14	0.03
5/11	0.12	0.22	0.15
5/14-5/19	NA	2.35	2.08
5/21	0.16	0.11	0.09
6/1	0.02	0.02	0.02
6/3	0.01	0.02	0.02
6/5-6/6	0.09	0.09	0.10
6/8-6/9	0.17	0.18	0.16
6/11-6/13	0.52	0.46	0.54
6/24-6/26	0.33	0.36	0.40

Appendix 2-4 (continued)

Date	Weather Measure Tipping Bucket Gauge	Belfort Weighing Bucket Gauge	Wedge Gauge
Monthly Totals			
January	0.19	0.41	0.35
February	0.44	0.83	0.68
March	1.36	2.10	1.59
April	1.74	2.31	1.82
May	NA	4.54	3.68
June	1.14	1.13	1.24
Six-Month Total	NA	11.32	9.36

No precipitation was recorded on dates not listed

NA: data not available due to damage from lightning strike

Appendix 2-4

RBOSC Site 3 Precipitation Data (inches)
January - June 1983

Date	Wedge Gauge
1/9	0.03
1/17-1/18	0.09
1/23-1/25	0.12
1/30-1/31	0.01
2/5-2/9	0.17
2/13	0.06
2/19	0.23
2/25-2/28	0.16
3/4-3/5	0.19
3/12-3/16	0.65
3/17-3/18	0.13
3/20	0.29
3/22-3/25	0.18
3/28-3/29	0.19
3/31-4/3	0.51
4/11-4/13	0.38
4/18-4/21	0.11
4/27-4/30	0.77
5/1-5/3	1.04
5/6	0.02
5/11	0.09
5/14-5/19	1.87
5/21	0.30
6/1	0.01
6/5-6/6	0.03
6/8-6/9	0.32
6/11-6/13	0.48
6/24-6/26	0.59

Appendix 2-4 (continued)

Date	Wedge Gauge
Monthly Totals	
January	0.25
February	0.62
March	1.63
April	1.77
May	3.32
June	1.43
Six-Month Total	9.02

No precipitation was recorded on dates not listed

APPENDIX 3

Terrestrial Data

APPENDIX 3-1

Pellet Group Data for Spring 1983

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
1	5	07JUN83	7000	20	SE	MP	1	1	0
1	5	07JUN83	7000	20	SE	MP	1	2	0
1	5	07JUN83	7000	20	SE	MP	1	3	1
1	5	07JUN83	7000	20	S	MP	1	4	0
1	5	07JUN83	7000	10	SE	OT	1	5	0
1	5	07JUN83	7000	10	SE	MB	1	6	0
1	5	07JUN83	7000	10	E	MP	1	7	1
1	5	07JUN83	7000	10	NE	MB	1	8	0
1	5	07JUN83	7000	10	N	MB	1	9	0
1	5	07JUN83	7000	20	N	MB	1	10	0
1	5	07JUN83	7000	30	N	MB	2	1	1
1	5	07JUN83	7000	10	NW	SB	2	2	1
1	5	07JUN83	7000	10	SE	SB	2	3	0
1	5	07JUN83	7000	20	E	MB	2	4	0
1	5	07JUN83	7000	50	S	MB	2	5	0
1	5	07JUN83	7000	10	E	SP	2	6	0
1	5	07JUN83	7000	10	E	MP	2	7	2
1	5	07JUN83	7000	10	E	MP	2	8	0
1	5	07JUN83	7000	20	SE	MP	2	9	0
1	5	07JUN83	7000	10	SE	MP	2	10	0
1	11	07JUN83	7000	20	E	MB	1	1	4
1	11	07JUN83	7000	20	E	MB	1	2	4
1	11	07JUN83	7000	10	N	MB	1	3	3
1	11	07JUN83	7000	10	SE	SB	1	4	0
1	11	07JUN83	7000	20	S	MP	1	5	0
1	11	07JUN83	7000	20	SE	MB	1	6	1
1	11	07JUN83	7000	20	SE	MB	1	7	3
1	11	07JUN83	7000	10	NW	MB	1	8	1
1	11	07JUN83	7000	20	NW	MB	1	9	1
1	11	07JUN83	7000	10	N	MB	1	10	0
1	11	07JUN83	7000	10	N	MB	2	1	2
1	11	07JUN83	7000	10	0	MB	2	2	0
1	11	07JUN83	7000	10	N	MP	2	3	0
1	11	07JUN83	7000	10	NW	MP	2	4	0
1	11	07JUN83	7000	10	0	MP	2	5	0
1	11	07JUN83	7000	10	NW	MP	2	6	0
1	11	07JUN83	7000	20	N	MB	2	7	1
1	11	07JUN83	7000	20	N	MB	2	8	0
1	11	07JUN83	7000	10	0	SB	2	9	0
1	11	07JUN83	7000	10	E	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
1	16	07JUN83	7500	10	E	MB	1	1	1
1	16	07JUN83	7500	50	SE	MB	1	2	0
1	16	07JUN83	7500	50	NE	MB	1	3	0
1	16	07JUN83	7500	30	SE	MB	1	4	0
1	16	07JUN83	7500	20	E	MB	1	5	0
1	16	07JUN83	7500	10	S	MB	1	6	0
1	16	07JUN83	7500	20	SW	MP	1	7	1
1	16	07JUN83	7500	20	S	MP	1	8	0
1	16	07JUN83	7500	10	SE	MP	1	9	0
1	16	07JUN83	7500	10	S	MP	1	10	0
1	16	07JUN83	7000	30	S	MP	2	1	0
1	16	07JUN83	7000	10	N	MB	2	2	0
1	16	07JUN83	7500	20	SW	MB	2	3	0
1	16	07JUN83	7500	30	SW	MP	2	4	0
1	16	07JUN83	7500	10	W	SB	2	5	0
1	16	07JUN83	7500	10	0	MP	2	6	0
1	16	07JUN83	7500	10	0	MP	2	7	3
1	16	07JUN83	7500	10	0	MP	2	8	0
1	16	07JUN83	7500	10	NE	MB	2	9	0
1	16	07JUN83	7500	10	E	MB	2	10	2
1	20	07JUN83	7500	10	0	SB	1	1	1
1	20	07JUN83	7500	50	S	MB	1	2	0
1	20	07JUN83	7500	50	SW	MB	1	3	0
1	20	07JUN83	7500	20	SW	OT	1	4	0
1	20	07JUN83	7500	20	SW	MB	1	5	0
1	20	07JUN83	7500	20	W	MB	1	6	0
1	20	07JUN83	7500	30	W	MB	1	7	1
1	20	07JUN83	7500	20	SE	MB	1	8	1
1	20	07JUN83	7500	20	S	MB	1	9	0
1	20	07JUN83	7500	20	S	MB	1	10	1
1	20	07JUN83	7500	50	W	MB	2	1	1
1	20	07JUN83	7500	50	W	OT	2	2	0
1	20	07JUN83	7500	40	W	OT	2	3	0
1	20	07JUN83	7500	40	W	OT	2	4	0
1	20	07JUN83	7500	30	W	MB	2	5	0
1	20	07JUN83	7500	30	SW	MB	2	6	1
1	20	07JUN83	7500	30	S	MB	2	7	0
1	20	07JUN83	7500	30	S	MB	2	8	0
1	20	07JUN83	7500	20	S	MB	2	9	0
1	20	07JUN83	7500	10	SE	MB	2	10	2

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
1	23	07JUN83	7000	10	W	MB	1	1	0
1	23	07JUN83	7000	10	SE	MB	1	2	0
1	23	07JUN83	7000	10	E	MB	1	3	0
1	23	07JUN83	7000	40	NE	MB	1	4	0
1	23	07JUN83	7000	10	NE	MB	1	5	0
1	23	07JUN83	7000	10	S	SB	1	6	0
1	23	07JUN83	7000	10	SW	OT	1	7	0
1	23	07JUN83	7000	10	SW	SP	1	8	0
1	23	07JUN83	7000	20	S	MP	1	9	0
1	23	07JUN83	7000	10	0	MP	1	10	0
1	23	07JUN83	7000	30	S	MP	2	1	1
1	23	07JUN83	7000	20	NE	MB	2	2	0
1	23	07JUN83	7000	50	S	MB	2	3	0
1	23	07JUN83	7000	10	S	SP	2	4	0
1	23	07JUN83	7000	40	W	SP	2	5	0
1	23	07JUN83	7000	40	SW	MP	2	6	0
1	23	07JUN83	7000	30	SW	MP	2	7	1
1	23	07JUN83	7000	10	S	SP	2	8	0
1	23	07JUN83	7000	10	S	MP	2	9	1
1	23	07JUN83	7000	20	N	MP	2	10	0
1	26	07JUN83	7500	20	S	MB	1	1	1
1	26	07JUN83	7500	20	S	MB	1	2	0
1	26	07JUN83	7500	10	N	MB	1	3	0
1	26	07JUN83	7500	40	N	MB	1	4	0
1	26	07JUN83	7500	50	N	MB	1	5	0
1	26	07JUN83	7500	50	N	MB	1	6	0
1	26	07JUN83	7500	50	N	MB	1	7	0
1	26	07JUN83	7500	20	N	MB	1	8	2
1	26	07JUN83	7500	10	S	SB	1	9	0
1	26	07JUN83	7500	50	S	MB	1	10	0
1	26	07JUN83	7500	40	NW	MB	2	1	0
1	26	07JUN83	7500	30	NW	MB	2	2	0
1	26	07JUN83	7500	20	SE	SB	2	3	0
1	26	07JUN83	7500	30	SE	OT	2	4	0
1	26	07JUN83	7500	10	S	MB	2	5	0
1	26	07JUN83	7000	10	0	MB	2	6	0
1	26	07JUN83	7000	50	N	MB	2	7	0
1	26	07JUN83	7000	50	N	MB	2	8	0
1	26	07JUN83	7000	10	N	SB	2	9	1
1	26	07JUN83	7000	50	S	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
1	31	07JUN83	7500	10	SW	MB	1	1	0
1	31	07JUN83	8000	20	S	MB	1	2	0
1	31	07JUN83	8000	20	S	MB	1	3	0
1	31	07JUN83	8000	10	SE	MB	1	4	0
1	31	07JUN83	8000	20	NE	MB	1	5	0
1	31	07JUN83	8000	30	NW	MB	1	6	0
1	31	07JUN83	8000	30	N	MB	1	7	1
1	31	07JUN83	8000	30	NE	MB	1	8	0
1	31	07JUN83	7500	40	NE	MB	1	9	0
1	31	07JUN83	7500	40	NE	MB	1	10	0
1	31	07JUN83	7500	10	SW	MB	2	1	0
1	31	07JUN83	7500	30	SW	MB	2	2	2
1	31	07JUN83	7500	10	E	SB	2	3	0
1	31	07JUN83	7500	20	SE	MB	2	4	1
1	31	07JUN83	7500	20	SE	MB	2	5	0
1	31	07JUN83	7500	30	SE	MB	2	6	1
1	31	07JUN83	7500	10	0	MB	2	7	0
1	31	07JUN83	7500	10	N	MB	2	8	0
1	31	07JUN83	8000	30	N	MB	2	9	0
1	31	07JUN83	8000	30	N	MB	2	10	0
2	5	18JUN83	6500	10	N	MP	1	1	0
2	5	18JUN83	6500	10	0	SB	1	2	0
2	5	07JUN83	6500	10	0	SB	1	3	0
2	5	07JUN83	6500	10	0	SB	1	4	0
2	5	07JUN83	6500	20	E	SB	1	5	0
2	5	07JUN83	6500	40	SW	MP	1	6	0
2	5	07JUN83	6500	30	S	MP	1	7	0
2	5	07JUN83	6500	10	S	MP	1	8	0
2	5	07JUN83	6500	10	0	MP	1	9	0
2	5	07JUN83	6500	20	NE	MP	1	10	0
2	5	18JUN83	6500	20	N	MP	2	1	0
2	5	18JUN83	6500	20	N	PJ	2	2	0
2	5	18JUN83	6500	20	N	MP	2	3	0
2	5	18JUN83	6500	10	N	MB	2	4	0
2	5	18JUN83	6500	10	0	SB	2	5	0
2	5	07JUN83	6500	10	0	SB	2	6	0
2	5	07JUN83	6500	10	0	SB	2	7	0
2	5	07JUN83	6500	30	SW	MP	2	8	0
2	5	07JUN83	6500	10	SE	MP	2	9	0
2	5	07JUN83	6500	10	SE	PJ	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
2	6	07JUN83	6500	10	N	PJ	1	1	0
2	6	07JUN83	6500	10	NW	PJ	1	2	0
2	6	07JUN83	6500	10	NW	PJ	1	3	0
2	6	07JUN83	6500	20	NW	MP	1	4	0
2	6	07JUN83	6500	20	SE	PJ	1	5	0
2	6	07JUN83	6500	10	NW	PJ	1	6	0
2	6	07JUN83	6500	30	NW	MP	1	7	0
2	6	07JUN83	6500	10	N	SB	1	8	0
2	6	07JUN83	6500	10	0	SB	1	9	0
2	6	07JUN83	6500	10	S	SB	1	10	0
2	6	07JUN83	6500	10	E	SP	2	1	0
2	6	07JUN83	6500	10	SE	PJ	2	2	0
2	6	07JUN83	6500	10	NE	SP	2	3	0
2	6	07JUN83	6500	10	NE	PJ	2	4	0
2	6	07JUN83	6500	10	NE	PJ	2	5	0
2	6	07JUN83	6500	10	N	PJ	2	6	0
2	6	07JUN83	6500	10	NE	MP	2	7	0
2	6	07JUN83	6500	20	E	MP	2	8	0
2	6	07JUN83	6500	20	E	MP	2	9	0
2	6	07JUN83	6500	20	N	SP	2	10	0
2	15	18JUN83	7000	10	W	MP	1	1	0
2	15	18JUN83	7000	10	E	SP	1	2	2
2	15	18JUN83	7000	20	E	MP	1	3	0
2	15	18JUN83	7000	10	E	MP	1	4	0
2	15	18JUN83	7000	10	NW	MP	1	5	0
2	15	18JUN83	7000	10	NW	MP	1	6	0
?	15	18JUN83	7000	10	NW	MP	1	7	0
2	15	18JUN83	7000	10	NW	MP	1	8	1
2	15	18JUN83	7000	10	N	MP	1	9	1
2	15	18JUN83	7000	20	N	MB	1	10	0
2	15	18JUN83	7000	10	NW	SP	2	1	1
2	15	18JUN83	7000	10	NW	SP	2	2	1
2	15	18JUN83	7000	10	N	SP	2	3	0
2	15	18JUN83	7000	10	N	SP	2	4	1
2	15	18JUN83	6500	10	N	MP	2	5	0
2	15	18JUN83	6500	10	N	MP	2	6	0
2	15	18JUN83	6500	20	SW	MP	2	7	0
2	15	18JUN83	6500	10	NW	MP	2	8	0
2	15	18JUN83	6500	20	N	MP	2	9	0
2	15	18JUN83	6500	30	NW	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
2	17	06JUN83	6500	20	S	PJ	1	1	0
2	17	06JUN83	6500	10	NE	PJ	1	2	0
2	17	06JUN83	6500	10	NE	PJ	1	3	2
2	17	06JUN83	6500	10	SE	PJ	1	4	0
2	17	06JUN83	6500	10	SE	PJ	1	5	0
2	17	06JUN83	6500	10	SE	PJ	1	6	0
2	17	06JUN83	6500	10	0	SP	1	7	0
2	17	06JUN83	6500	10	N	SP	1	8	0
2	17	06JUN83	6500	10	N	SP	1	9	0
2	17	06JUN83	6500	10	N	SP	1	10	0
2	17	06JUN83	6500	10	N	SP	2	1	0
2	17	06JUN83	6500	10	0	SP	2	2	0
2	17	06JUN83	6500	10	SE	MP	2	3	0
2	17	06JUN83	6500	10	N	PJ	2	4	0
2	17	06JUN83	6500	10	N	PJ	2	5	0
2	17	06JUN83	6500	10	N	PJ	2	6	0
2	17	06JUN83	6500	10	N	PJ	2	7	0
2	17	06JUN83	6500	10	0	SP	2	8	1
2	17	06JUN83	6500	10	0	SB	2	9	0
2	17	06JUN83	6500	10	SE	MP	2	10	1
2	24	06JUN83	6500	20	N	PJ	1	1	0
2	24	06JUN83	6500	10	SE	PJ	1	2	0
2	24	06JUN83	6500	10	SE	PJ	1	3	0
2	24	06JUN83	6500	10	0	SP	1	4	0
2	24	06JUN83	6500	10	N	PJ	1	5	0
2	24	06JUN83	6500	10	N	SP	1	6	0
2	24	06JUN83	6500	10	NW	SP	1	7	0
2	24	06JUN83	6500	10	NW	SP	1	8	0
2	24	06JUN83	6500	10	NW	SP	1	9	0
2	24	06JUN83	6500	10	0	SB	1	10	1
2	24	06JUN83	6500	10	NE	SP	2	1	0
2	24	06JUN83	6500	10	NE	SP	2	2	0
2	24	06JUN83	6500	10	N	SB	2	3	0
2	24	06JUN83	6500	10	SE	PJ	2	4	0
2	24	06JUN83	6500	10	SE	PJ	2	5	0
2	24	06JUN83	6500	10	E	PJ	2	6	0
2	24	06JUN83	6500	10	E	PJ	2	7	0
2	24	06JUN83	6500	10	N	PJ	2	8	0
2	24	06JUN83	6500	10	N	PJ	2	9	0
2	24	06JUN83	6500	10	N	PJ	2	10	1

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
2	28	06JUN83	7000	10	N	SP	1	1	2
2	28	06JUN83	7000	10	N	SB	1	2	0
2	28	06JUN83	7000	10	N	SB	1	3	0
2	28	06JUN83	7000	10	N	SB	1	4	1
2	28	06JUN83	7000	10	N	SB	1	5	0
2	28	06JUN83	7000	10	N	SB	1	6	0
2	28	06JUN83	7000	10	NE	SB	1	7	0
2	28	06JUN83	7000	10	N	SB	1	8	0
2	28	06JUN83	7000	10	N	SB	1	9	0
2	28	06JUN83	7000	10	N	SB	1	10	0
2	28	06JUN83	7000	10	E	PJ	2	1	0
2	28	06JUN83	7000	10	E	PJ	2	2	0
2	28	06JUN83	7000	10	N	SP	2	3	0
2	28	06JUN83	7000	10	N	SP	2	4	1
2	28	06JUN83	7000	10	N	SP	2	5	0
2	28	06JUN83	7000	10	N	SP	2	6	1
2	28	06JUN83	7000	10	N	SB	2	7	0
2	28	06JUN83	7000	10	N	SB	2	8	0
2	28	06JUN83	7000	10	N	SB	2	9	0
2	28	06JUN83	7000	10	N	SB	2	10	3
2	34	06JUN83	7000	10	NE	PJ	1	1	0
2	34	06JUN83	7000	10	N	PJ	1	2	0
2	34	06JUN83	7000	10	E	SP	1	3	2
2	34	06JUN83	7000	10	E	SP	1	4	0
2	34	06JUN83	7000	10	E	SP	1	5	0
2	34	06JUN83	7000	10	E	MP	1	6	0
2	34	06JUN83	7000	10	E	MP	1	7	0
2	34	06JUN83	7000	10	E	PJ	1	8	0
2	34	06JUN83	7000	10	N	SP	1	9	0
2	34	06JUN83	7000	10	N	SP	1	10	0
2	34	06JUN83	7000	10	0	SP	2	1	0
2	34	06JUN83	7000	10	N	SP	2	2	3
2	34	06JUN83	7000	10	N	SP	2	3	0
2	34	06JUN83	7000	10	N	SP	2	4	0
2	34	06JUN83	7000	10	N	SP	2	5	0
2	34	06JUN83	7000	10	E	SB	2	6	0
2	34	06JUN83	7000	10	S	SB	2	7	0
2	34	06JUN83	7000	10	SE	PJ	2	8	0
2	34	06JUN83	7000	10	SE	PJ	2	9	0
2	34	06JUN83	7000	10	SE	PJ	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
3	1	06JUN83	6500	30	SE	SP	1	1	0
3	1	06JUN83	6500	10	0	SP	1	2	0
3	1	06JUN83	6500	10	0	SP	1	3	0
3	1	06JUN83	6500	10	0	SP	1	4	0
3	1	06JUN83	6500	10	N	SP	1	5	0
3	1	06JUN83	6500	10	0	SP	1	6	0
3	1	06JUN83	6500	10	0	SP	1	7	0
3	1	06JUN83	6500	10	0	SP	1	8	0
3	1	06JUN83	6500	10	0	SB	1	9	0
3	1	06JUN83	6500	10	NW	SP	1	10	0
3	1	06JUN83	6500	10	0	SP	2	1	0
3	1	06JUN83	6500	10	0	SB	2	2	0
3	1	06JUN83	6500	10	N	SP	2	3	0
3	1	06JUN83	6500	10	0	SP	2	4	0
3	1	06JUN83	6500	10	0	SB	2	5	0
3	1	06JUN83	6500	10	S	SB	2	6	0
3	1	06JUN83	6500	10	0	SB	2	7	0
3	1	06JUN83	6500	10	N	SB	2	8	0
3	1	06JUN83	6500	10	0	SB	2	9	1
3	1	06JUN83	6500	10	0	SB	2	10	1
3	11	06JUN83	6500	20	S	SP	1	1	0
3	11	06JUN83	6500	10	S	SP	1	2	0
3	11	06JUN83	6500	10	0	SB	1	3	0
3	11	06JUN83	6500	10	0	SB	1	4	0
3	11	06JUN83	6500	10	0	SB	1	5	1
3	11	06JUN83	6500	10	0	SB	1	6	0
3	11	06JUN83	6500	10	0	SB	1	7	0
3	11	06JUN83	6500	10	0	SB	1	8	0
3	11	06JUN83	6500	10	0	SB	1	9	0
3	11	06JUN83	6500	10	0	SB	1	10	0
3	11	06JUN83	6500	10	S	SP	2	1	0
3	11	06JUN83	6500	10	0	MP	2	2	1
3	11	06JUN83	6500	10	N	SP	2	3	0
3	11	06JUN83	6500	10	N	SP	2	4	1
3	11	06JUN83	6500	10	0	SB	2	5	0
3	11	06JUN83	6500	10	N	SB	2	6	0
3	11	06JUN83	6500	10	S	SB	2	7	0
3	11	06JUN83	6500	10	N	SB	2	8	0
3	11	06JUN83	6500	10	SE	SB	2	9	0
3	11	06JUN83	6500	10	S	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
3	14	06JUN83	6500	10	0	SB	1	1	0
3	14	06JUN83	6500	10	0	SB	1	2	1
3	14	06JUN83	6500	10	0	SB	1	3	0
3	14	06JUN83	6500	10	SE	SP	1	4	0
3	14	06JUN83	6500	10	SE	PJ	1	5	0
3	14	06JUN83	6500	10	SE	PJ	1	6	0
3	14	06JUN83	6500	10	SE	PJ	1	7	1
3	14	06JUN83	6500	10	NE	SP	1	8	0
3	14	06JUN83	6500	10	N	SP	1	9	0
3	14	06JUN83	6500	10	0	SB	1	10	0
3	14	06JUN83	6500	10	N	SP	2	1	0
3	14	06JUN83	6500	10	N	SB	2	2	0
3	14	06JUN83	6500	10	0	SB	2	3	3
3	14	06JUN83	6500	10	0	SB	2	4	0
3	14	06JUN83	6500	10	0	SB	2	5	0
3	14	06JUN83	6500	10	0	SB	2	6	0
3	14	06JUN83	6500	10	W	SB	2	7	0
3	14	06JUN83	6500	10	S	SP	2	8	1
3	14	06JUN83	6500	10	0	SP	2	9	0
3	14	06JUN83	6500	10	0	SB	2	10	0
3	17	06JUN83	6500	10	0	SB	1	1	0
3	17	06JUN83	6500	10	0	SB	1	2	0
3	17	06JUN83	6500	10	0	SB	1	3	0
3	17	06JUN83	6500	10	0	SB	1	4	0
3	17	06JUN83	6500	10	0	SB	1	5	0
3	17	06JUN83	6500	10	0	SB	1	6	0
3	17	06JUN83	6500	10	0	SB	1	7	0
3	17	06JUN83	6500	10	N	SB	1	8	0
3	17	06JUN83	6500	10	S	SP	1	9	0
3	17	06JUN83	6500	20	S	MP	1	10	0
3	17	06JUN83	6500	10	W	SB	2	1	1
3	17	06JUN83	6500	10	NW	SB	2	2	0
3	17	06JUN83	6500	10	NW	SB	2	3	0
3	17	06JUN83	6500	10	N	SB	2	4	0
3	17	06JUN83	6500	10	NW	SB	2	5	0
3	17	06JUN83	6500	10	NW	SB	2	6	0
3	17	06JUN83	6500	10	NW	SB	2	7	0
3	17	06JUN83	6500	10	N	SB	2	8	0
3	17	06JUN83	6500	10	SE	SB	2	9	0
3	17	06JUN83	6500	10	S	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
3	18	06JUN83	6500	10	SW	SB	1	1	0
3	18	06JUN83	6500	10	W	SB	1	2	0
3	18	06JUN83	6500	10	W	SB	1	3	0
3	18	06JUN83	6500	10	SW	SB	1	4	0
3	18	06JUN83	6500	10	0	SB	1	5	1
3	18	06JUN83	6500	10	N	SB	1	6	0
3	18	06JUN83	6500	10	N	SB	1	7	0
3	18	06JUN83	6500	10	NW	SB	1	8	0
3	18	06JUN83	6500	20	W	SB	1	9	0
3	18	06JUN83	6500	10	SW	SB	1	10	0
3	18	06JUN83	6500	10	0	SB	2	1	0
3	18	06JUN83	6500	10	0	SB	2	2	0
3	18	06JUN83	6500	10	0	SB	2	3	0
3	18	06JUN83	6500	10	0	SB	2	4	0
3	18	06JUN83	6500	10	0	SB	2	5	0
3	18	06JUN83	6500	10	NW	SB	2	6	0
3	18	06JUN83	6500	10	NW	SB	2	7	0
3	18	06JUN83	6500	10	SW	SB	2	8	0
3	18	06JUN83	6500	10	SW	SB	2	9	1
3	18	06JUN83	6500	10	SW	SB	2	10	0
3	19	06JUN83	6500	10	N	SP	1	1	0
3	19	06JUN83	6500	10	0	SP	1	2	1
3	19	06JUN83	6500	10	NW	SB	1	3	0
3	19	06JUN83	6500	10	NW	SB	1	4	0
3	19	06JUN83	6500	10	N	SB	1	5	0
3	19	06JUN83	6500	10	N	SB	1	6	1
3	19	06JUN83	6500	10	0	SB	1	7	0
3	19	06JUN83	6500	10	0	SB	1	8	0
3	19	06JUN83	6500	10	SE	PJ	1	9	0
3	19	06JUN83	6500	20	SW	PJ	1	10	0
3	19	06JUN83	6500	10	0	SP	2	1	0
3	19	06JUN83	6500	10	0	SP	2	2	0
3	19	06JUN83	6500	10	N	SP	2	3	0
3	19	06JUN83	6500	10	N	SP	2	4	0
3	19	06JUN83	6500	10	N	SB	2	5	0
3	19	06JUN83	6500	10	SE	SP	2	6	0
3	19	06JUN83	6500	10	E	PJ	2	7	0
3	19	06JUN83	6500	10	SE	PJ	2	8	1
3	19	06JUN83	6500	10	NE	PJ	2	9	0
3	19	06JUN83	6500	10	N	SP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
3	34	06JUN83	6000	10	0	SB	1	1	0
3	34	06JUN83	6000	10	0	SB	1	2	0
3	34	17JUN83	6000	10	0	MB	1	3	0
3	34	17JUN83	6000	50	S	MP	1	4	0
3	34	17JUN83	6500	40	SE	MP	1	5	1
3	34	17JUN83	6500	20	SE	SB	1	6	1
3	34	17JUN83	6500	50	SW	MP	1	7	0
3	34	17JUN83	6500	10	S	PJ	1	8	0
3	34	17JUN83	6500	10	0	PJ	1	9	0
3	34	17JUN83	6500	10	NE	SP	1	10	0
3	34	17JUN83	6500	20	NW	MP	2	1	0
3	34	17JUN83	6500	40	NW	MP	2	2	0
3	34	17JUN83	6500	10	NW	SB	2	3	0
3	34	17JUN83	6000	10	0	SB	2	4	0
3	34	17JUN83	6000	10	0	SB	2	5	0
3	34	17JUN83	6000	10	0	SB	2	6	0
3	34	17JUN83	6000	50	E	MP	2	7	0
3	34	17JUN83	6500	50	E	MP	2	8	0
3	34	17JUN83	6500	40	E	SP	2	9	0
3	34	17JUN83	6500	10	0	SP	2	10	1
4	1	07JUN83	7500	50	S	MB	1	1	0
4	1	07JUN83	7500	50	N	OT	1	2	0
4	1	07JUN83	7500	10	E	SB	1	3	0
4	1	07JUN83	7500	50	S	MB	1	4	0
4	1	07JUN83	7500	30	SE	MB	1	5	1
4	1	07JUN83	7500	40	SE	MB	1	6	0
4	1	07JUN83	7500	40	SE	MB	1	7	2
4	1	07JUN83	7500	30	SE	MB	1	8	0
4	1	07JUN83	7500	30	SE	MB	1	9	1
4	1	07JUN83	8000	30	SE	MB	1	10	0
4	1	07JUN83	7500	50	N	MB	2	1	1
4	1	07JUN83	7500	50	N	MB	2	2	0
4	1	07JUN83	7500	40	N	MB	2	3	1
4	1	07JUN83	7500	10	E	MB	2	4	0
4	1	07JUN83	7500	50	S	MP	2	5	0
4	1	07JUN83	7500	50	SE	MP	2	6	0
4	1	07JUN83	7500	30	SE	MB	2	7	0
4	1	07JUN83	7500	40	E	MB	2	8	0
4	1	07JUN83	7500	40	E	MB	2	9	3
4	1	07JUN83	7500	10	SE	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
4	8	16JUN83	7500	20	N	MB	1	1	0
4	8	16JUN83	7500	30	N	MB	1	2	0
4	8	16JUN83	7500	10	SE	MB	1	3	0
4	8	16JUN83	7500	30	SE	MB	1	4	0
4	8	16JUN83	7500	20	S	MB	1	5	0
4	8	16JUN83	7500	10	SE	MB	1	6	0
4	8	16JUN83	7500	10	SE	MB	1	7	0
4	8	16JUN83	7500	10	SE	MB	1	8	0
4	8	16JUN83	8000	20	S	MB	1	9	0
4	8	16JUN83	8000	10	0	MB	1	10	0
4	8	16JUN83	7500	10	N	MB	2	1	1
4	8	16JUN83	7500	20	N	MB	2	2	1
4	8	16JUN83	7500	20	N	MB	2	3	0
4	8	16JUN83	7500	10	S	MB	2	4	0
4	8	16JUN83	7500	30	S	MB	2	5	1
4	8	16JUN83	7500	20	SE	MB	2	6	1
4	8	16JUN83	7500	30	E	MB	2	7	0
4	8	16JUN83	7500	20	E	MB	2	8	1
4	8	16JUN83	7500	20	SE	MB	2	9	0
4	8	16JUN83	7500	30	E	MB	2	10	1
4	13	16JUN83	7500	10	0	MB	1	1	0
4	13	16JUN83	7500	10	SW	OT	1	2	0
4	13	16JUN83	7500	10	SW	OT	1	3	0
4	13	16JUN83	8000	10	S	MB	1	4	0
4	13	16JUN83	8000	20	S	MB	1	5	2
4	13	16JUN83	8000	10	0	MB	1	6	0
4	13	16JUN83	8000	10	W	MB	1	7	0
4	13	16JUN83	8000	10	W	MB	1	8	0
4	13	16JUN83	8000	10	S	MB	1	9	0
4	13	16JUN83	8000	10	N	MB	1	10	0
4	13	16JUN83	7500	10	SE	MB	2	1	0
4	13	16JUN83	7500	10	SW	MB	2	2	0
4	13	16JUN83	7500	20	SW	MB	2	3	0
4	13	16JUN83	7500	20	SW	OT	2	4	0
4	13	16JUN83	7500	10	SW	OT	2	5	0
4	13	16JUN83	7500	20	SW	OT	2	6	0
4	13	16JUN83	7500	10	SW	OT	2	7	0
4	13	16JUN83	7500	10	0	OT	2	8	0
4	13	16JUN83	7500	10	N	OT	2	9	1
4	13	16JUN83	7500	10	N	OT	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
4	14	16JUN83	7500	30	E	MB	1	1	0
4	14	16JUN83	7500	30	E	MB	1	2	0
4	14	16JUN83	7500	30	E	MB	1	3	1
4	14	16JUN83	7500	30	E	MB	1	4	0
4	14	16JUN83	7500	20	SE	MB	1	5	1
4	14	16JUN83	7500	30	E	MB	1	6	1
4	14	16JUN83	7500	10	E	MB	1	7	0
4	14	16JUN83	7500	20	S	MB	1	8	0
4	14	16JUN83	7500	10	S	MB	1	9	0
4	14	16JUN83	7500	10	0	MB	1	10	0
4	14	16JUN83	7500	50	SW	MB	2	1	0
4	14	16JUN83	7500	30	SW	MB	2	2	2
4	14	16JUN83	7500	20	SW	MB	2	3	1
4	14	16JUN83	7500	20	W	MB	2	4	0
4	14	16JUN83	7500	20	SE	MB	2	5	1
4	14	16JUN83	7500	20	SE	MB	2	6	1
4	14	16JUN83	7500	20	SE	MB	2	7	1
4	14	16JUN83	7500	10	N	MB	2	8	0
4	14	16JUN83	7500	10	SW	MB	2	9	0
4	14	16JUN83	7500	10	SW	MB	2	10	1
4	18	14JUN83	7000	20	N	MB	1	1	0
4	18	14JUN83	7000	20	N	MB	1	2	1
4	18	14JUN83	7000	20	N	MB	1	3	1
4	18	14JUN83	7000	20	S	SB	1	4	0
4	18	14JUN83	7000	40	S	PJ	1	5	0
4	18	14JUN83	7000	10	S	MP	1	6	1
4	18	14JUN83	7000	10	S	PJ	1	7	0
4	18	14JUN83	7000	10	S	PJ	1	8	1
4	18	14JUN83	7500	10	S	PJ	1	9	0
4	18	14JUN83	7500	30	S	PJ	1	10	0
4	18	14JUN83	7500	40	N	MB	2	1	0
4	18	14JUN83	7500	20	S	SB	2	2	0
4	18	14JUN83	7500	10	S	SB	2	3	0
4	18	14JUN83	7500	20	S	SB	2	4	1
4	18	14JUN83	7500	20	S	SB	2	5	0
4	18	14JUN83	7500	40	E	SB	2	6	2
4	18	14JUN83	7500	40	E	SB	2	7	0
4	18	14JUN83	7500	40	E	SP	2	8	0
4	18	14JUN83	7500	30	E	SP	2	9	5
4	18	14JUN83	7500	10	E	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
4	23	16JUN83	7000	30	S	MB	1	1	0
4	23	16JUN83	7000	10	0	OT	1	2	0
4	23	16JUN83	7000	30	E	MB	1	3	3
4	23	16JUN83	7000	30	E	MB	1	4	1
4	23	16JUN83	7000	40	E	MB	1	5	1
4	23	16JUN83	7500	30	E	MB	1	6	1
4	23	16JUN83	7500	20	SE	MP	1	7	1
4	23	16JUN83	7500	10	S	MP	1	8	1
4	23	16JUN83	7500	10	0	MB	1	9	0
4	23	16JUN83	7500	10	E	MB	1	10	1
4	23	16JUN83	7000	40	S	MP	2	1	1
4	23	16JUN83	7000	30	S	SP	2	2	0
4	23	16JUN83	7000	30	S	SP	2	3	0
4	23	16JUN83	7500	30	E	MP	2	4	5
4	23	16JUN83	7500	10	S	MP	2	5	0
4	23	16JUN83	7500	10	SE	MP	2	6	0
4	23	16JUN83	7500	10	NW	MP	2	7	0
4	23	16JUN83	7500	20	NW	MB	2	8	0
4	23	16JUN83	7000	30	NW	MB	2	9	0
4	23	16JUN83	7000	20	E	MB	2	10	0
4	25	16JUN83	8000	30	S	SB	1	1	0
4	25	16JUN83	8000	10	SW	OT	1	2	0
4	25	16JUN83	8000	10	S	MB	1	3	0
4	25	16JUN83	8000	10	W	OT	1	4	0
4	25	16JUN83	8000	10	W	OT	1	5	0
4	25	16JUN83	8000	10	S	MB	1	6	0
4	25	16JUN83	8000	10	S	MB	1	7	0
4	25	16JUN83	8000	10	N	MB	1	8	0
4	25	16JUN83	8000	40	N	MB	1	9	0
4	25	16JUN83	7500	40	N	MB	1	10	0
4	25	16JUN83	7500	20	SW	MB	2	1	0
4	25	16JUN83	7500	20	W	MB	2	2	1
4	25	16JUN83	7500	20	S	MB	2	3	1
4	25	16JUN83	7500	20	S	OT	2	4	0
4	25	16JUN83	8000	20	S	MB	2	5	1
4	25	16JUN83	8000	10	SW	OT	2	6	0
4	25	16JUN83	8000	10	W	OT	2	7	0
4	25	16JUN83	7500	10	N	MB	2	8	1
4	25	16JUN83	7500	10	N	MB	2	9	0
4	25	16JUN83	7500	20	N	MB	2	10	1

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
5	8	14JUN83	7000	10	SE	MP	1	1	2
5	8	14JUN83	7000	10	N	MB	1	2	0
5	8	14JUN83	7000	10	N	SB	1	3	0
5	8	14JUN83	7000	10	N	MB	1	4	4
5	8	14JUN83	7000	10	N	MB	1	5	0
5	8	14JUN83	7000	10	N	MB	1	6	0
5	8	14JUN83	7000	10	N	MB	1	7	2
5	8	14JUN83	7000	20	N	MB	1	8	0
5	8	14JUN83	7000	20	S	MB	1	9	0
5	8	14JUN83	7000	10	S	MB	1	10	0
5	8	14JUN83	7000	10	E	MP	2	1	0
5	8	14JUN83	7000	10	E	SB	2	2	0
5	8	14JUN83	7000	10	NE	MB	2	3	2
5	8	14JUN83	7000	10	E	MB	2	4	0
5	8	14JUN83	7000	10	S	MB	2	5	1
5	8	14JUN83	7000	10	S	MB	2	6	0
5	8	14JUN83	7000	10	0	MB	2	7	0
5	8	14JUN83	7000	10	N	SB	2	8	1
5	8	14JUN83	7000	10	N	MB	2	9	0
5	8	14JUN83	7000	10	N	SB	2	10	0
5	13	14JUN83	7000	50	S	MB	1	1	0
5	13	14JUN83	7000	10	S	SB	1	2	0
5	13	14JUN83	7000	40	S	SP	1	3	1
5	13	14JUN83	7000	40	S	OT	1	4	1
5	13	14JUN83	7000	20	S	SP	1	5	2
5	13	14JUN83	7000	40	S	SB	1	6	2
5	13	14JUN83	7000	10	0	MP	1	7	0
5	13	14JUN83	7000	10	N	MP	1	8	0
5	13	14JUN83	7000	20	W	MP	1	9	2
5	13	14JUN83	7000	20	W	MP	1	10	0
5	13	14JUN83	6500	10	N	MB	2	1	2
5	13	14JUN83	6500	10	0	SB	2	2	1
5	13	14JUN83	7000	40	S	SB	2	3	0
5	13	14JUN83	7000	20	S	MP	2	4	0
5	13	14JUN83	7000	10	SE	MP	2	5	0
5	13	14JUN83	7000	20	E	SB	2	6	3
5	13	14JUN83	7000	30	E	SB	2	7	1
5	13	14JUN83	7000	10	SE	MP	2	8	0
5	13	14JUN83	7000	10	SE	MP	2	9	0
5	13	14JUN83	7000	10	0	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
5	15	14JUN83	7000	10	N	MP	1	1	0
5	15	14JUN83	7000	10	NW	MB	1	2	1
5	15	14JUN83	7000	10	NW	MP	1	3	0
5	15	14JUN83	7000	10	N	MP	1	4	3
5	15	14JUN83	6500	10	N	MP	1	5	3
5	15	14JUN83	6500	10	N	MP	1	6	3
5	15	14JUN83	6500	30	NW	MP	1	7	0
5	15	14JUN83	6500	10	0	SB	1	8	0
5	15	14JUN83	6500	10	0	SB	1	9	1
5	15	14JUN83	7000	40	S	SP	1	10	0
5	15	14JUN83	7000	10	E	PJ	2	1	0
5	15	14JUN83	7000	10	0	PJ	2	2	0
5	15	14JUN83	7000	10	N	SP	2	3	0
5	15	14JUN83	7000	10	W	PJ	2	4	0
5	15	14JUN83	7000	30	N	SP	2	5	0
5	15	14JUN83	7000	10	N	SB	2	6	2
5	15	14JUN83	6500	10	N	SB	2	7	0
5	15	14JUN83	6500	10	N	SP	2	8	3
5	15	14JUN83	6500	10	N	MP	2	9	0
5	15	14JUN83	6500	20	N	MP	2	10	0
5	27	14JUN83	7000	10	0	SP	1	1	3
5	27	14JUN83	7000	20	W	SB	1	2	2
5	27	14JUN83	7000	20	W	SP	1	3	4
5	27	14JUN83	7000	10	N	SP	1	4	0
5	27	14JUN83	7000	20	N	MB	1	5	0
5	27	14JUN83	7000	20	N	MB	1	6	1
5	27	14JUN83	7000	10	N	MB	1	7	4
5	27	14JUN83	7000	20	N	MB	1	8	2
5	27	14JUN83	6500	40	N	MB	1	9	0
5	27	14JUN83	6500	30	N	MB	1	10	0
5	27	14JUN83	7000	10	0	SP	2	1	0
5	27	14JUN83	7000	10	0	SP	2	2	0
5	27	14JUN83	7000	10	0	SP	2	3	0
5	27	14JUN83	7000	10	0	SP	2	4	0
5	27	14JUN83	7000	10	0	SP	2	5	0
5	27	14JUN83	7000	10	N	SP	2	6	1
5	27	14JUN83	7000	10	N	SP	2	7	0
5	27	14JUN83	7000	10	N	SP	2	8	0
5	27	14JUN83	7000	20	N	SB	2	9	3
5	27	14JUN83	6500	30	N	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
5	28	14JUN83	7000	10	0	SB	1	1	0
5	28	14JUN83	7000	10	S	SB	1	2	1
5	28	14JUN83	7000	30	E	MP	1	3	0
5	28	14JUN83	7000	30	S	PJ	1	4	0
5	28	14JUN83	7000	10	N	MP	1	5	0
5	28	14JUN83	7000	20	E	SP	1	6	0
5	28	14JUN83	7000	20	S	PJ	1	7	0
5	28	14JUN83	7000	10	S	SP	1	8	0
5	28	14JUN83	7000	10	S	SP	1	9	0
5	28	14JUN83	7000	10	0	PJ	1	10	0
5	28	14JUN83	7000	10	N	SB	2	1	0
5	28	14JUN83	6500	10	N	SB	2	2	0
5	28	14JUN83	6500	10	0	SB	2	3	0
5	28	14JUN83	6500	20	NE	MB	2	4	0
5	28	14JUN83	6500	20	SW	PJ	2	5	0
5	28	14JUN83	6500	10	N	SP	2	6	0
5	28	14JUN83	6500	10	N	SP	2	7	1
5	28	14JUN83	6500	10	N	MB	2	8	1
5	28	14JUN83	6500	10	0	MB	2	9	0
5	28	14JUN83	6500	10	N	SB	2	10	1
5	29	08JUN83	7000	10	W	SP	1	1	1
5	29	08JUN83	7000	20	NW	OT	1	2	2
5	29	08JUN83	7000	10	N	SB	1	3	2
5	29	08JUN83	7000	10	0	SB	1	4	0
5	29	08JUN83	7000	10	0	SP	1	5	0
5	29	08JUN83	7000	10	N	SB	1	6	0
5	29	08JUN83	7000	20	N	MB	1	7	1
5	29	08JUN83	7000	30	SW	PJ	1	8	0
5	29	08JUN83	7000	20	W	SP	1	9	0
5	29	08JUN83	7000	20	W	SB	1	10	0
5	29	08JUN83	7000	10	0	SB	2	1	0
5	29	08JUN83	7000	10	N	SP	2	2	0
5	29	08JUN83	7000	10	W	SP	2	3	0
5	29	08JUN83	7000	10	N	SB	2	4	0
5	29	08JUN83	7000	10	N	SB	2	5	0
5	29	08JUN83	7000	10	NE	SB	2	6	3
5	29	08JUN83	7000	20	E	SB	2	7	0
5	29	08JUN83	7000	10	NE	SP	2	8	0
5	29	08JUN83	7000	10	NE	SB	2	9	0
5	29	08JUN83	7000	10	NE	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
5	36	08JUN83	6500	10	0	SP	1	1	0
5	36	08JUN83	6500	10	NE	MP	1	2	0
5	36	08JUN83	6500	20	S	SP	1	3	2
5	36	08JUN83	6500	10	SE	SP	1	4	1
5	36	08JUN83	6500	10	SE	MP	1	5	0
5	36	08JUN83	6500	10	E	SP	1	6	2
5	36	08JUN83	7000	30	N	MP	1	7	0
5	36	08JUN83	7000	30	S	MP	1	8	0
5	36	08JUN83	7000	30	S	MP	1	9	0
5	36	08JUN83	7000	10	S	MP	1	10	0
5	36	08JUN83	6500	10	S	MP	2	1	0
5	36	08JUN83	6500	10	S	SP	2	2	0
5	36	08JUN83	6500	10	NE	SP	2	3	0
5	36	08JUN83	6500	10	E	SP	2	4	0
5	36	08JUN83	6500	10	E	PJ	2	5	0
5	36	08JUN83	6500	10	E	SP	2	6	0
5	36	08JUN83	6500	10	SE	SP	2	7	0
5	36	08JUN83	6500	10	0	MP	2	8	1
5	36	08JUN83	6500	10	SE	SP	2	9	1
5	36	08JUN83	7000	10	SE	SP	2	10	1
6	8	15JUN83	6500	10	NW	MP	1	1	0
6	8	15JUN83	6500	10	W	SP	1	2	1
6	8	15JUN83	6500	30	SE	MP	1	3	2
6	8	15JUN83	6500	10	NW	MP	1	4	4
6	8	15JUN83	6500	10	NW	MP	1	5	1
6	8	15JUN83	6500	10	NW	MP	1	6	4
6	8	15JUN83	6500	10	NW	PJ	1	7	0
6	8	15JUN83	6500	20	N	MP	1	8	5
6	8	15JUN83	6500	10	0	SB	1	9	1
6	8	15JUN83	6500	10	0	SB	1	10	0
6	8	15JUN83	6500	30	E	MP	2	1	1
6	8	15JUN83	6500	30	E	MP	2	2	0
6	8	15JUN83	6500	30	E	MP	2	3	1
6	8	15JUN83	6500	30	E	MP	2	4	0
6	8	15JUN83	6500	30	E	SP	2	5	0
6	8	15JUN83	6500	10	N	SP	2	6	1
6	8	15JUN83	6500	10	0	SB	2	7	2
6	8	15JUN83	6500	10	0	SB	2	8	2
6	8	15JUN83	6500	10	0	SB	2	9	0
6	8	15JUN83	6500	10	0	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
6	11	17JUN83	6500	20	N	MP	1	1	0
6	11	17JUN83	6500	10	0	MP	1	2	1
6	11	17JUN83	6500	20	SE	PJ	1	3	0
6	11	17JUN83	6500	20	S	MP	1	4	2
6	11	17JUN83	6500	20	SW	MP	1	5	0
6	11	17JUN83	6500	10	0	PJ	1	6	0
6	11	17JUN83	6500	10	0	SP	1	7	0
6	11	17JUN83	6500	10	0	SP	1	8	1
6	11	17JUN83	6500	10	0	MP	1	9	2
6	11	17JUN83	6500	20	N	MP	1	10	2
6	11	17JUN83	6500	10	SE	SP	2	1	0
6	11	17JUN83	6500	10	0	SP	2	2	0
6	11	17JUN83	6500	20	N	SP	2	3	0
6	11	17JUN83	6500	10	SE	MP	2	4	0
6	11	17JUN83	6500	10	N	PJ	2	5	0
6	11	17JUN83	6500	20	E	MP	2	6	1
6	11	17JUN83	6500	10	SW	PJ	2	7	0
6	11	17JUN83	6500	10	0	SP	2	8	0
6	11	17JUN83	6500	10	SE	PJ	2	9	0
6	11	17JUN83	6500	10	0	SP	2	10	0
6	14	14JUN83	6500	10	E	MP	1	1	3
6	14	14JUN83	6500	10	SE	PJ	1	2	0
6	14	14JUN83	6500	10	0	PJ	1	3	0
6	14	14JUN83	6500	10	0	SP	1	4	0
6	14	14JUN83	6500	10	NW	MP	1	5	0
6	14	14JUN83	6500	20	NW	MP	1	6	0
6	14	14JUN83	6500	10	NW	MP	1	7	0
6	14	14JUN83	6500	30	SE	MP	1	8	0
6	14	14JUN83	6500	20	SE	MP	1	9	0
6	14	14JUN83	6500	10	NW	MP	1	10	0
6	14	14JUN83	6500	10	N	SP	2	1	2
6	14	14JUN83	6500	10	N	SP	2	2	1
6	14	14JUN83	6500	10	N	SP	2	3	0
6	14	14JUN83	6500	10	N	SP	2	4	0
6	14	14JUN83	6500	30	SE	SP	2	5	0
6	14	14JUN83	6500	10	0	SP	2	6	0
6	14	14JUN83	6500	10	N	MP	2	7	0
6	14	14JUN83	6500	10	N	MP	2	8	1
6	14	14JUN83	6500	20	N	MP	2	9	0
6	14	14JUN83	6500	10	N	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
6	27	07JUN83	6500	30	S	MP	1	1	0
6	27	07JUN83	6500	20	E	SP	1	2	0
6	27	07JUN83	6500	30	N	SP	1	3	1
6	27	07JUN83	6500	50	S	MP	1	4	0
6	27	07JUN83	6500	10	E	SP	1	5	0
6	27	07JUN83	6500	10	SE	PJ	1	6	0
6	27	07JUN83	6500	10	E	PJ	1	7	0
6	27	07JUN83	6500	10	E	MP	1	8	0
6	27	07JUN83	6500	30	S	MP	1	9	0
6	27	07JUN83	6500	10	NE	SB	1	10	0
6	27	07JUN83	6500	20	SE	MB	2	1	0
6	27	07JUN83	6500	10	SE	MB	2	2	0
6	27	07JUN83	6500	10	SE	SB	2	3	0
6	27	07JUN83	6500	50	S	OT	2	4	0
6	27	07JUN83	6500	10	E	SP	2	5	0
6	27	07JUN83	6500	20	N	SP	2	6	0
6	27	07JUN83	6500	10	SE	SB	2	7	0
6	27	07JUN83	6500	30	SW	MP	2	8	0
6	27	07JUN83	6500	10	E	SP	2	9	0
6	27	07JUN83	6500	10	N	SP	2	10	0
6	30	17JUN83	6500	10	0	MP	1	1	0
6	30	17JUN83	6500	10	SW	MP	1	2	0
6	30	17JUN83	6500	10	S	MP	1	3	0
6	30	17JUN83	6500	10	N	MP	1	4	0
6	30	17JUN83	6500	10	N	MP	1	5	0
6	30	17JUN83	6500	10	N	PJ	1	6	1
6	30	17JUN83	6500	10	N	SP	1	7	0
6	30	17JUN83	6500	20	NE	SB	1	8	2
6	30	17JUN83	6500	10	0	SP	1	9	0
6	30	17JUN83	6500	10	0	SP	1	10	0
6	30	17JUN83	6500	10	E	PJ	2	1	0
6	30	17JUN83	6500	10	E	PJ	2	2	0
6	30	17JUN83	6500	10	E	PJ	2	3	1
6	30	17JUN83	6500	10	E	MP	2	4	0
6	30	17JUN83	6500	10	E	MP	2	5	1
6	30	17JUN83	6500	10	E	MP	2	6	1
6	30	17JUN83	6500	10	SE	MP	2	7	0
6	30	17JUN83	6500	10	0	PJ	2	8	0
6	30	17JUN83	6500	10	0	MP	2	9	0
6	30	17JUN83	6500	10	N	PJ	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
6	32	07JUN83	6500	30	SE	SP	1	1	0
6	32	07JUN83	6500	30	N	SP	1	2	0
6	32	07JUN83	6500	50	S	MP	1	3	0
6	32	07JUN83	6500	10	E	PJ	1	4	0
6	32	07JUN83	6500	10	E	SP	1	5	0
6	32	07JUN83	6500	10	NE	SP	1	6	0
6	32	07JUN83	6500	10	SE	PJ	1	7	0
6	32	07JUN83	6500	20	NE	SP	1	8	0
6	32	07JUN83	6500	20	E	PJ	1	9	0
6	32	07JUN83	6500	10	E	MP	1	10	0
6	32	07JUN83	6500	10	0	SB	2	1	0
6	32	07JUN83	6500	10	SE	OT	2	2	0
6	32	07JUN83	6500	20	SE	SP	2	3	0
6	32	07JUN83	6500	30	N	MP	2	4	0
6	32	07JUN83	6500	30	SW	SP	2	5	0
6	32	07JUN83	6500	30	W	MP	2	6	0
6	32	07JUN83	6500	30	W	MP	2	7	0
6	32	07JUN83	6500	30	W	PJ	2	8	0
6	32	07JUN83	6500	20	W	PJ	2	9	0
6	32	07JUN83	6500	20	SW	PJ	2	10	0
6	35	17JUN83	6500	10	W	SB	1	1	0
6	35	17JUN83	6500	10	E	SP	1	2	0
6	35	17JUN83	6500	10	E	SP	1	3	0
6	35	17JUN83	6500	20	E	MP	1	4	0
6	35	17JUN83	6500	20	E	MP	1	5	0
6	35	17JUN83	6500	10	E	MP	1	6	0
6	35	17JUN83	6500	10	0	PJ	1	7	0
6	35	17JUN83	6500	10	NW	MP	1	8	1
6	35	17JUN83	6500	10	NW	MP	1	9	1
6	35	17JUN83	6500	10	0	PJ	1	10	0
6	35	17JUN83	6500	10	0	MP	2	1	1
6	35	17JUN83	6500	10	W	PJ	2	2	0
6	35	17JUN83	6500	10	NW	MP	2	3	0
6	35	17JUN83	6500	10	NW	MP	2	4	0
6	35	17JUN83	6500	10	NW	MP	2	5	0
6	35	17JUN83	6500	10	NW	MP	2	6	0
6	35	17JUN83	6500	10	NW	MP	2	7	0
6	35	17JUN83	6500	20	N	MP	2	8	0
6	35	17JUN83	6500	20	N	SP	2	9	2
6	35	17JUN83	6500	10	0	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
7	16	15JUN83	7500	20	NW	MB	1	1	0
7	16	15JUN83	7500	10	NW	MB	1	2	0
7	16	15JUN83	7500	30	SE	MB	1	3	0
7	16	15JUN83	7500	30	SE	MB	1	4	0
7	16	15JUN83	7500	30	SE	MB	1	5	0
7	16	15JUN83	7500	10	0	MB	1	6	0
7	16	15JUN83	7500	10	NW	MB	1	7	1
7	16	15JUN83	7500	20	NW	MB	1	8	0
7	16	15JUN83	7500	20	NW	MB	1	9	0
7	16	15JUN83	7500	20	NW	MB	1	10	1
7	16	15JUN83	7500	0	0	SB	2	1	0
7	16	15JUN83	7500	10	0	MB	2	2	2
7	16	15JUN83	7500	10	NW	MB	2	3	0
7	16	15JUN83	7500	20	NW	MB	2	4	0
7	16	15JUN83	7500	20	NW	MB	2	5	1
7	16	15JUN83	7000	20	NW	MB	2	6	0
7	16	15JUN83	7000	10	NW	MB	2	7	0
7	16	15JUN83	7000	10	S	SB	2	8	0
7	16	15JUN83	7000	40	E	MB	2	9	0
7	16	15JUN83	7000	30	SE	MB	2	10	1
7	17	08JUN83	7500	10	NW	MB	1	1	0
7	17	08JUN83	7500	10	N	MB	1	2	0
7	17	08JUN83	7500	20	N	MB	1	3	0
7	17	08JUN83	7000	40	S	MP	1	4	0
7	17	08JUN83	7000	10	W	MB	1	5	0
7	17	08JUN83	7000	30	NW	MB	1	6	1
7	17	08JUN83	7000	40	NW	MB	1	7	1
7	17	08JUN83	7000	40	N	MB	1	8	1
7	17	08JUN83	7000	50	W	MB	1	9	0
7	17	08JUN83	7000	40	W	MB	1	10	1
7	17	08JUN83	7500	10	0	MB	2	1	1
7	17	08JUN83	7500	10	0	MB	2	2	0
7	17	08JUN83	7500	10	0	MB	2	3	0
7	17	08JUN83	7500	10	0	MB	2	4	0
7	17	08JUN83	7500	10	0	MB	2	5	1
7	17	08JUN83	7500	10	0	MB	2	6	0
7	17	08JUN83	7500	10	NW	MB	2	7	0
7	17	08JUN83	7500	10	0	MB	2	8	1
7	17	08JUN83	7500	10	0	MB	2	9	0
7	17	08JUN83	7500	10	NW	MB	2	10	2

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
7	19	15JUN83	8000	30	E	MB	1	1	0
7	19	15JUN83	8000	30	E	MB	1	2	0
7	19	15JUN83	8000	40	NE	OT	1	3	0
7	19	15JUN83	7500	40	NE	OT	1	4	0
7	19	15JUN83	7500	10	NE	OT	1	5	0
7	19	15JUN83	7500	30	SW	MB	1	6	0
7	19	15JUN83	7500	30	SW	MB	1	7	0
7	19	15JUN83	7500	20	SW	MB	1	8	0
7	19	15JUN83	7500	30	SW	MB	1	9	0
7	19	15JUN83	7500	30	SW	MB	1	10	0
7	19	15JUN83	7500	50	NW	OT	2	1	0
7	19	15JUN83	7500	50	NW	OT	2	2	0
7	19	15JUN83	7500	40	SE	OT	2	3	0
7	19	15JUN83	7500	50	N	OT	2	4	0
7	19	15JUN83	7500	50	N	OT	2	5	0
7	19	15JUN83	7500	30	S	MB	2	6	0
7	19	15JUN83	7500	30	SE	MB	2	7	0
7	19	15JUN83	7500	30	SE	MB	2	8	0
7	19	15JUN83	7500	30	SE	MP	2	9	0
7	19	15JUN83	7500	30	SE	MP	2	10	0
7	22	15JUN83	7500	10	0	MB	1	1	0
7	22	15JUN83	7500	10	W	MB	1	2	0
7	22	15JUN83	7500	10	NW	MB	1	3	0
7	22	15JUN83	7500	10	N	MB	1	4	0
7	22	15JUN83	7500	20	NW	MB	1	5	0
7	22	15JUN83	7500	30	NW	MB	1	6	0
7	22	15JUN83	7500	20	N	MB	1	7	0
7	22	15JUN83	7500	10	NW	MB	1	8	0
7	22	15JUN83	7500	20	SE	MB	1	9	0
7	22	15JUN83	7500	20	S	MB	1	10	0
7	22	15JUN83	7500	30	E	MB	2	1	0
7	22	15JUN83	7500	20	SE	MB	2	2	0
7	22	15JUN83	7500	10	SE	MB	2	3	0
7	22	15JUN83	7500	10	N	MB	2	4	0
7	22	15JUN83	7500	10	NE	MB	2	5	0
7	22	15JUN83	7500	10	NE	MB	2	6	0
7	22	15JUN83	7500	10	NE	MB	2	7	0
7	22	15JUN83	7500	10	NE	MB	2	8	0
7	22	15JUN83	7500	10	NE	MB	2	9	0
7	22	15JUN83	7500	10	0	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
7	28	15JUN83	8000	30	SE	MB	1	1	1
7	28	15JUN83	8000	20	SE	MB	1	2	1
7	28	15JUN83	7500	10	SE	MB	1	3	0
7	28	15JUN83	7500	10	N	MB	1	4	1
7	28	15JUN83	7500	20	NW	MB	1	5	0
7	28	15JUN83	7500	40	NW	MB	1	6	0
7	28	15JUN83	7500	40	NW	MB	1	7	0
7	28	15JUN83	7500	40	NW	MB	1	8	0
7	28	15JUN83	7500	40	NW	MB	1	9	0
7	28	15JUN83	7500	10	SE	SB	1	10	1
7	28	15JUN83	7500	50	N	MB	2	1	0
7	28	15JUN83	7500	50	N	MB	2	2	0
7	28	15JUN83	7500	50	N	MB	2	3	0
7	28	15JUN83	7500	50	E	MB	2	4	1
7	28	15JUN83	7500	40	N	MB	2	5	0
7	28	15JUN83	7500	40	N	MB	2	6	0
7	28	15JUN83	7500	10	SE	MB	2	7	0
7	28	15JUN83	7500	30	SE	MB	2	8	2
7	28	15JUN83	7500	30	SE	MB	2	9	1
7	28	15JUN83	7500	30	SE	MB	2	10	1
7	32	16JUN83	8000	20	NW	MB	1	1	0
7	32	16JUN83	8000	30	NW	MB	1	2	0
7	32	16JUN83	8000	30	NW	OT	1	3	0
7	32	16JUN83	8000	30	NW	OT	1	4	0
7	32	16JUN83	8000	50	SE	MB	1	5	0
7	32	16JUN83	8000	50	SE	MB	1	6	0
7	32	16JUN83	8000	50	SE	MB	1	7	0
7	32	16JUN83	8000	50	SE	MB	1	8	0
7	32	16JUN83	8000	10	0	MB	1	9	0
7	32	16JUN83	8000	10	NW	MB	1	10	0
7	32	16JUN83	8000	20	NW	MB	2	1	0
7	32	16JUN83	8000	30	Nw	OT	2	2	0
7	32	16JUN83	8000	30	NW	OT	2	3	0
7	32	16JUN83	8000	40	S	OT	2	4	0
7	32	16JUN83	8000	40	E	MB	2	5	0
7	32	16JUN83	8000	40	N	OT	2	6	0
7	32	16JUN83	8000	40	NE	OT	2	7	0
7	32	16JUN83	8000	40	NE	OT	2	8	0
7	32	16JUN83	8000	40	S	MB	2	9	0
7	32	16JUN83	8000	30	S	MB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
7	34	15JUN83	7500	50	N	MB	1	1	0
7	34	15JUN83	7500	50	N	MB	1	2	0
7	34	15JUN83	7500	50	N	MB	1	3	0
7	34	15JUN83	7500	40	SE	MB	1	4	0
7	34	15JUN83	7500	30	NE	MB	1	5	0
7	34	15JUN83	7500	30	SW	MB	1	6	0
7	34	15JUN83	7500	30	W	MB	1	7	0
7	34	15JUN83	7500	30	W	MB	1	8	0
7	34	15JUN83	7500	30	S	MB	1	9	0
7	34	15JUN83	7500	30	NW	MB	1	10	0
7	34	15JUN83	7500	50	N	MB	2	1	0
7	34	15JUN83	7500	50	N	MB	2	2	0
7	34	15JUN83	7500	50	SE	MB	2	3	0
7	34	15JUN83	7500	50	SE	MB	2	4	0
7	34	15JUN83	7500	50	SE	MB	2	5	1
7	34	15JUN83	7500	50	E	MB	2	6	0
7	34	15JUN83	7500	50	E	MB	2	7	1
7	34	15JUN83	7500	50	E	MB	2	8	1
7	34	15JUN83	7500	10	E	MB	2	9	0
7	34	15JUN83	7500	10	NE	MB	2	10	0
8	3	08JUN83	7000	10	N	MB	1	1	1
8	3	08JUN83	7000	10	N	SB	1	2	1
8	3	08JUN83	7000	10	N	SB	1	3	0
8	3	08JUN83	7000	10	S	SB	1	4	0
8	3	08JUN83	7000	10	S	SB	1	5	0
8	3	08JUN83	7000	30	NE	MP	1	6	1
8	3	08JUN83	7000	40	S	PJ	1	7	0
8	3	08JUN83	7000	40	E	PJ	1	8	0
8	3	08JUN83	7000	10	S	MP	1	9	0
8	3	08JUN83	7000	10	0	MP	1	10	0
8	3	08JUN83	7000	10	N	SB	2	1	2
8	3	08JUN83	7000	10	N	SB	2	2	0
8	3	08JUN83	7000	10	N	SB	2	3	0
8	3	08JUN83	7000	10	N	SB	2	4	3
8	3	08JUN83	7000	10	N	SB	2	5	0
8	3	08JUN83	7000	10	N	SB	2	6	0
8	3	08JUN83	7000	10	N	SB	2	7	3
8	3	08JUN83	7000	10	N	SB	2	8	1
8	3	08JUN83	7000	10	N	SB	2	9	0
8	3	08JUN83	7000	10	N	SB	2	10	1

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
8	5	08JUN83	7000	10	N	MB	1	1	0
8	5	08JUN83	7000	10	SE	SB	1	2	0
8	5	08JUN83	7000	10	SE	MB	1	3	0
8	5	08JUN83	7000	50	SW	MB	1	4	0
8	5	08JUN83	7000	10	S	SP	1	5	0
8	5	08JUN83	7000	20	SW	MB	1	6	0
8	5	08JUN83	7000	10	E	MB	1	7	1
8	5	08JUN83	7000	40	E	MB	1	8	2
8	5	08JUN83	7000	20	SE	MP	1	9	0
8	5	08JUN83	7000	10	SE	SP	1	10	1
8	5	08JUN83	7000	10	N	SP	2	1	0
8	5	08JUN83	7000	10	N	SP	2	2	1
8	5	08JUN83	7000	10	N	SP	2	3	2
8	5	08JUN83	7000	10	NW	SP	2	4	0
8	5	08JUN83	7000	10	NE	SB	2	5	0
8	5	08JUN83	7000	30	SW	SB	2	6	0
8	5	08JUN83	7000	40	SE	MP	2	7	0
8	5	08JUN83	7000	20	SE	PJ	2	8	0
8	5	08JUN83	7000	10	E	MP	2	9	0
8	5	08JUN83	7000	40	E	PJ	2	10	0
8	11	08JUN83	7000	10	SE	MP	1	1	0
8	11	08JUN83	7000	20	E	MP	1	2	0
8	11	08JUN83	7000	20	SE	MB	1	3	0
8	11	08JUN83	7000	30	SE	MP	1	4	0
8	11	08JUN83	7000	30	S	MP	1	5	0
8	11	08JUN83	7000	10	S	SP	1	6	0
8	11	08JUN83	7000	10	N	SP	1	7	0
8	11	08JUN83	7000	10	N	SP	1	8	0
8	11	08JUN83	7000	10	N	SP	1	9	0
8	11	08JUN83	7000	10	N	MP	1	10	0
8	11	08JUN83	6500	40	NE	MB	2	1	1
8	11	08JUN83	6500	50	S	MP	2	2	0
8	11	08JUN83	6500	40	S	SP	2	3	0
8	11	08JUN83	6500	40	S	PJ	2	4	0
8	11	08JUN83	7000	10	SW	SP	2	5	1
8	11	08JUN83	7000	10	0	SP	2	6	0
8	11	08JUN83	7000	10	SE	SP	2	7	0
8	11	08JUN83	7000	10	E	SP	2	8	0
8	11	08JUN83	7000	10	SE	SP	2	9	0
8	11	08JUN83	7000	10	SE	SP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
8	13	08JUN83	7000	20	SE	MB	1	1	0
8	13	08JUN83	7000	10	SE	SP	1	2	0
8	13	08JUN83	7000	20	SE	MP	1	3	0
8	13	08JUN83	7000	10	SE	MP	1	4	3
8	13	08JUN83	7000	10	SE	MB	1	5	0
8	13	08JUN83	7000	10	0	SB	1	6	0
8	13	08JUN83	7000	10	0	SB	1	7	0
8	13	08JUN83	7000	10	NW	SB	1	8	2
8	13	08JUN83	7000	10	NW	SB	1	9	0
8	13	08JUN83	7000	10	NW	SB	1	10	0
8	13	08JUN83	7000	10	SE	MB	2	1	0
8	13	08JUN83	7000	10	SE	MP	2	2	0
8	13	08JUN83	7000	10	SE	MB	2	3	0
8	13	08JUN83	7000	10	SE	MB	2	4	0
8	13	08JUN83	7000	10	SE	MB	2	5	2
8	13	08JUN83	7000	10	SE	MB	2	6	1
8	13	08JUN83	7000	10	SE	SB	2	7	0
8	13	08JUN83	7000	10	SE	SB	2	8	0
8	13	08JUN83	7000	10	S	MB	2	9	1
8	13	08JUN83	7000	10	0	MB	2	10	1
8	14	08JUN83	7000	10	SE	MP	1	1	0
8	14	08JUN83	7000	10	SE	MP	1	2	0
8	14	08JUN83	7000	10	SE	MP	1	3	0
8	14	08JUN83	7000	10	SE	MP	1	4	0
8	14	08JUN83	7000	10	SE	MP	1	5	0
8	14	08JUN83	7000	10	SE	MP	1	6	0
8	14	08JUN83	7000	10	SE	MB	1	7	0
8	14	08JUN83	7000	10	SE	MB	1	8	0
8	14	08JUN83	7000	10	S	MB	1	9	0
8	14	08JUN83	7000	20	S	MB	1	10	1
8	14	08JUN83	7000	40	E	MB	2	1	1
8	14	08JUN83	7000	30	E	MP	2	2	1
8	14	08JUN83	7000	20	E	MP	2	3	1
8	14	08JUN83	7000	50	S	MP	2	4	0
8	14	08JUN83	7000	40	E	MP	2	5	2
8	14	08JUN83	7000	30	E	MP	2	6	0
8	14	08JUN83	7000	50	SE	MP	2	7	0
8	14	08JUN83	7000	20	SE	MP	2	8	0
8	14	08JUN83	7000	20	E	MP	2	9	0
8	14	08JUN83	7000	10	E	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
8	27	18JUN83	7000	30	SW	MP	1	1	0
8	27	18JUN83	7000	10	NW	MP	1	2	1
8	27	18JUN83	7000	40	NW	MP	1	3	0
8	27	18JUN83	6500	10	0	SB	1	4	0
8	27	18JUN83	6500	10	0	OT	1	5	0
8	27	18JUN83	6500	10	SE	SB	1	6	0
8	27	18JUN83	7000	50	S	MP	1	7	1
8	27	18JUN83	7000	10	S	SP	1	8	0
8	27	18JUN83	7000	10	0	SP	1	9	0
8	27	18JUN83	7000	10	E	SP	1	10	0
8	27	18JUN83	7000	10	N	SB	2	1	0
8	27	18JUN83	7000	10	N	SB	2	2	0
8	27	18JUN83	7000	20	N	SB	2	3	0
8	27	18JUN83	7000	20	N	MB	2	4	0
8	27	18JUN83	7000	50	W	MP	2	5	0
8	27	18JUN83	7000	30	W	MP	2	6	0
8	27	18JUN83	6500	20	N	SB	2	7	0
8	27	18JUN83	6500	10	0	OT	2	8	0
8	27	18JUN83	6500	10	0	OT	2	9	0
8	27	18JUN83	6500	10	0	OT	2	10	0
8	34	07JUN83	7000	10	0	SB	1	1	0
8	34	07JUN83	7000	10	N	SB	1	2	0
8	34	07JUN83	7000	10	0	OT	1	3	0
8	34	07JUN83	7000	10	NW	MB	1	4	0
8	34	07JUN83	7000	10	NW	MB	1	5	0
8	34	07JUN83	7000	20	NW	MB	1	6	0
8	34	07JUN83	7000	40	NW	MB	1	7	0
8	34	07JUN83	7000	20	NW	MB	1	8	0
8	34	07JUN83	7000	40	E	SB	1	9	0
8	34	07JUN83	7000	20	E	MP	1	10	1
8	34	07JUN83	7000	10	N	SB	2	1	0
8	34	07JUN83	7000	10	N	SB	2	2	0
8	34	07JUN83	7000	10	N	SB	2	3	0
8	34	07JUN83	7000	10	N	SB	2	4	0
8	34	07JUN83	7000	10	N	SB	2	5	0
8	34	07JUN83	7000	10	N	SB	2	6	0
8	34	07JUN83	7000	10	N	SB	2	7	0
8	34	07JUN83	7000	10	N	SB	2	8	0
8	34	07JUN83	7000	20	W	MP	2	9	0
8	34	07JUN83	7000	20	W	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
9	3	07JUN83	6500	10	E	PJ	1	1	0
9	3	07JUN83	6500	10	0	PJ	1	2	0
9	3	07JUN83	6500	10	NE	PJ	1	3	0
9	3	07JUN83	6500	20	NW	MP	1	4	0
9	3	07JUN83	6500	20	N	MP	1	5	0
9	3	07JUN83	6500	20	W	MP	1	6	0
9	3	07JUN83	6500	20	NW	SP	1	7	0
9	3	07JUN83	6500	30	N	MP	1	8	0
9	3	07JUN83	6500	20	N	SB	1	9	0
9	3	07JUN83	6500	10	NW	SB	1	10	0
9	3	07JUN83	6500	10	E	SB	2	1	0
9	3	07JUN83	6500	20	E	SP	2	2	0
9	3	07JUN83	6500	10	E	PJ	2	3	0
9	3	07JUN83	6500	40	S	MP	2	4	0
9	3	07JUN83	6500	10	E	SP	2	5	0
9	3	07JUN83	6500	10	E	SP	2	6	0
9	3	07JUN83	6500	10	NE	SP	2	7	0
9	3	07JUN83	6500	20	NE	MP	2	8	0
9	3	07JUN83	6500	20	E	PJ	2	9	0
9	3	07JUN83	6500	10	N	SP	2	10	0
9	7	07JUN83	6500	10	N	MP	1	1	0
9	7	07JUN83	6500	10	N	MP	1	2	0
9	7	07JUN83	6500	30	S	PJ	1	3	0
9	7	07JUN83	6500	10	0	SP	1	4	1
9	7	07JUN83	6500	10	N	SP	1	5	0
9	7	07JUN83	6500	40	NE	MP	1	6	0
9	7	07JUN83	6500	20	N	MP	1	7	0
9	7	07JUN83	6500	30	E	MP	1	8	0
9	7	07JUN83	6500	20	N	SB	1	9	0
9	7	07JUN83	6500	10	0	SB	1	10	0
9	7	07JUN83	6500	10	NW	MP	2	1	0
9	7	07JUN83	6500	10	NW	MP	2	2	0
9	7	07JUN83	6500	20	NW	MP	2	3	0
9	7	07JUN83	6500	20	NE	MP	2	4	0
9	7	07JUN83	6500	20	NE	MP	2	5	0
9	7	07JUN83	6500	20	E	MP	2	6	0
9	7	07JUN83	6500	10	N	MP	2	7	0
9	7	07JUN83	6500	20	N	MB	2	8	1
9	7	07JUN83	6500	10	W	SB	2	9	0
9	7	07JUN83	6500	20	W	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
9	9	07JUN83	6500	10	SW	SP	1	1	0
9	9	07JUN83	6500	10	NE	SP	1	2	0
9	9	07JUN83	6500	10	NE	SP	1	3	0
9	9	07JUN83	6500	10	SW	SB	1	4	0
9	9	07JUN83	6500	10	0	SB	1	5	0
9	9	07JUN83	6500	20	SE	SB	1	6	0
9	9	07JUN83	6500	50	E	MP	1	7	0
9	9	07JUN83	6500	10	E	MP	1	8	0
9	9	07JUN83	6500	10	E	MP	1	9	0
9	9	07JUN83	6500	10	NE	MP	1	10	0
9	9	07JUN83	6500	10	SW	SP	2	1	0
9	9	07JUN83	6500	10	SW	MP	2	2	0
9	9	07JUN83	6500	20	SW	SP	2	3	0
9	9	07JUN83	6500	30	NW	MP	2	4	0
9	9	07JUN83	6500	50	SW	MP	2	5	0
9	9	07JUN83	6500	30	NW	MP	2	6	1
9	9	07JUN83	6500	10	NW	MP	2	7	0
9	9	07JUN83	6500	20	N	MP	2	8	0
9	9	07JUN83	6500	20	NW	MP	2	9	0
9	9	07JUN83	6500	20	NW	MP	2	10	0
9	15	07JUN83	7000	10	NW	SB	1	1	0
9	15	07JUN83	6500	10	N	SB	1	2	0
9	15	07JUN83	6500	10	N	SB	1	3	0
9	15	07JUN83	6500	10	NW	SB	1	4	0
9	15	07JUN83	6500	20	SW	MB	1	5	0
9	15	07JUN83	6500	10	0	SB	1	6	0
9	15	07JUN83	6500	10	0	SP	1	7	0
9	15	07JUN83	6500	10	N	MB	1	8	0
9	15	07JUN83	6500	10	NE	SP	1	9	0
9	15	07JUN83	6500	10	N	MP	1	10	0
9	15	07JUN83	7000	10	NW	SB	2	1	0
9	15	07JUN83	7000	10	NW	SB	2	2	0
9	15	07JUN83	7000	10	NW	SP	2	3	0
9	15	07JUN83	7000	10	NW	SB	2	4	0
9	15	07JUN83	7000	10	NW	SP	2	5	0
9	15	07JUN83	6500	10	NW	SP	2	6	0
9	15	07JUN83	6500	20	N	SP	2	7	0
9	15	07JUN83	6500	20	N	SB	2	8	0
9	15	07JUN83	6500	10	W	SB	2	9	0
9	15	07JUN83	6500	10	W	SB	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
9	21	07JUN83	6500	50	S	MB	1	1	0
9	21	07JUN83	7000	50	SW	MP	1	2	0
9	21	07JUN83	7000	40	S	MP	1	3	0
9	21	07JUN83	7000	10	S	MP	1	4	0
9	21	07JUN83	7000	10	0	SB	1	5	0
9	21	07JUN83	7000	10	0	SP	1	6	0
9	21	07JUN83	7000	10	NW	SB	1	7	0
9	21	07JUN83	7000	10	W	SB	1	8	0
9	21	07JUN83	7000	10	0	SB	1	9	0
9	21	07JUN83	7000	10	NW	SB	1	10	0
9	21	07JUN83	6500	50	E	MP	2	1	0
9	21	07JUN83	6500	50	E	MP	2	2	0
9	21	07JUN83	7000	40	SE	MP	2	3	0
9	21	07JUN83	7000	30	S	MP	2	4	0
9	21	07JUN83	7000	30	SE	MP	2	5	0
9	21	07JUN83	7000	10	N	SP	2	6	0
9	21	07JUN83	7000	10	NW	SP	2	7	1
9	21	07JUN83	7000	10	NW	SB	2	8	0
9	21	07JUN83	7000	10	NW	SB	2	9	0
9	21	07JUN83	7000	10	NW	SB	2	10	0
9	30	07JUN83	7000	10	NW	MP	1	1	0
9	30	07JUN83	6500	10	N	MP	1	2	0
9	30	07JUN83	6500	40	S	PJ	1	3	0
9	30	07JUN83	6500	10	S	MP	1	4	0
9	30	07JUN83	7000	10	0	MP	1	5	0
9	30	07JUN83	7000	10	N	MP	1	6	1
9	30	07JUN83	7000	10	0	MP	1	7	0
9	30	07JUN83	7000	10	NE	MP	1	8	0
9	30	07JUN83	7000	10	NE	SP	1	9	0
9	30	07JUN83	7000	10	0	SP	1	10	0
9	30	07JUN83	7000	10	NW	MP	2	1	0
9	30	07JUN83	7000	10	NW	MP	2	2	0
9	30	07JUN83	7000	20	NW	MP	2	3	0
9	30	07JUN83	7000	10	SW	MP	2	4	0
9	30	07JUN83	7000	10	0	PJ	2	5	0
9	30	07JUN83	7000	10	N	PJ	2	6	0
9	30	07JUN83	7000	10	N	MP	2	7	0
9	30	07JUN83	6500	40	W	MB	2	8	0
9	30	07JUN83	6500	10	N	MP	2	9	0
9	30	07JUN83	7000	20	SW	MP	2	10	0

RIO BLANCO OIL SHALE COMPANY
WILDLIFE MONITORING PROGRAM - TRACT C-A

REPORT YEAR=1983 SEASON=WINTER

BLOCK	SAMPLE UNIT	DATE	ELEV	SLOPE	ASPECT	VEG TYPE	TRAN-SECT	PLOT	PELLET COUNT
9	35	07JUN83	7000	10	NW	SB	1	1	0
9	35	07JUN83	7000	10	NW	SP	1	2	0
9	35	07JUN83	7000	50	S	MP	1	3	0
9	35	07JUN83	7000	10	W	MP	1	4	0
9	35	07JUN83	7000	20	W	MP	1	5	0
9	35	07JUN83	7000	10	SW	MP	1	6	0
9	35	07JUN83	7000	10	W	PJ	1	7	0
9	35	07JUN83	7000	10	W	PJ	1	8	0
9	35	07JUN83	7000	10	SE	MP	1	9	0
9	35	07JUN83	7000	10	NW	PJ	1	10	0
9	35	07JUN83	7000	10	0	SP	2	1	0
9	35	07JUN83	7000	30	NE	SP	2	2	3
9	35	07JUN83	7000	30	NE	SP	2	3	0
9	35	07JUN83	7000	20	NE	SB	2	4	0
9	35	07JUN83	7000	10	N	SB	2	5	0
9	35	07JUN83	6500	10	NE	SP	2	6	0
9	35	07JUN83	6500	20	NE	SP	2	7	2
9	35	07JUN83	7000	40	SW	MP	2	8	0
9	35	07JUN83	7000	40	SW	MP	2	9	0
9	35	07JUN83	7000	20	N	MP	2	10	1

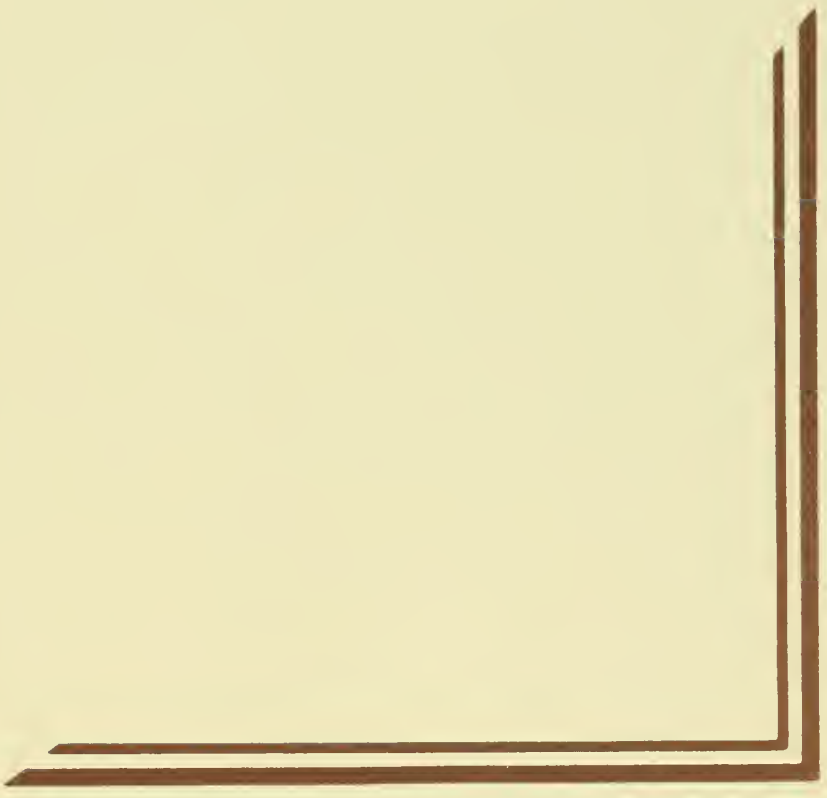
APPENDIX 3-2

Analysis of Mule Deer Studies

TABLE . CALCULATED NUMBER OF DEER PER SQUARE MILE ENCOUNTERED ON NINE BLOCKS SAMPLED IN THE WILDLIFE MONITORING PROGRAM NEAR RBOSC TRACT C-A

REPORT YEAR=1983
SEASON= WINTER

BLOCK	AVERAGE PELLET COUNT	NUMBER OF DEER PER SQUARE MILE
1	7.57	47.78
2	3.71	23.44
3	2.86	18.03
4	8.57	54.09
5	12.00	75.72
6	7.57	47.78
7	3.86	24.34
8	5.86	36.96
9	1.57	9.92



APPENDIX 4

Aquatics Data

APPENDIX 4-1

Stream Physical Data

AQUATIC ECOLOGY MONITORING PROGRAM - STREAM PHYSICAL DATA

STATION=CG-1 DATE=12APR83

LOCAL WEATHER CONDITIONS	
AIR TEMPERATURE (DEG C)	22
ESTIMATED WIND DIRECTION (DEG)	123
ESTIMATED WIND SPEED (MPH)	5
PERCENT CLOUD COVER	100
FIELD WATER QUALITY MEASUREMENTS	
WATER TEMPERATURE	REP A =9.3 REP B =9.5 REP C =9.5
SPECIFIC CONDUCTANCE	REP A =1400 REP B =1350 REP C =1400
DISSOLVED OXYGEN	REP A =14.5 REP B =14.5 REP C =13.5
PH	REP A =7.1 REP B =7.1 REP C =7.2
VISUAL TURBIDITY ESTIMATE	CLEAR
CALCULATED TURBIDITY	REP A =. REP B =2.2
TOTAL ALKALINITY	REP A =. REP B =.
PHENYL ALKALINITY	REP A =. REP B =.
STREAM EVALUATION INDEXES	
SUBSTRATE COMPOSITION INDEX	MEDIUM SILTING, FEW STONES
FLOW DURING SURVEY INDEX	HIGH WATER - SPRING RUNOFF
PERCENT RIPARIAN COVER ESTIMATE	0
BANK VEGETATION RATING	NO CANOPY COVER (0 % COVER)
BANK STABILITY RATING	UNSTABLE - MODERATE EROSION
BANK CONDITION RATING	LIGHT USE AND DAMAGE
STREAM CHANNEL STABILITY RATING	STABLE - LIGHT CHANNEL EROSION
STREAM CHANNEL CONDITION RATING	LIGHT USE AND DAMAGE
STREAM WIDTH AND FLOW MEASUREMENTS	
TOTAL STREAM WIDTH (METERS)	1.01
DISTANCE LEFT BANK - 1 (METERS)	0.2
DEPTH OF WATER - 1 (METERS)	0.05
VELOCITY - 1 (RPM)	70
DISTANCE LEFT BANK - 2 (METERS)	0.35
DEPTH OF WATER - 2 (METERS)	0.06
VELOCITY - 2 (RPM)	136
DISTANCE LEFT BANK - 3 (METERS)	0.5
DEPTH OF WATER - 3 (METERS)	0.05
VELOCITY - 3 (RPM)	112
DISTANCE LEFT BANK - 4 (METERS)	.
DEPTH OF WATER - 4 (METERS)	.
VELOCITY - 4 (RPM)	.
DISTANCE LEFT BANK - 5 (METERS)	.
DEPTH OF WATER - 5 (METERS)	.
VELOCITY - 5 (RPM)	.
DISTANCE LEFT BANK - 6 (METERS)	.
DEPTH OF WATER - 6 (METERS)	.
VELOCITY - 6 (RPM)	.
DISTANCE LEFT BANK - 7 (METERS)	.
DEPTH OF WATER - 7 (METERS)	.
VELOCITY - 7 (RPM)	.
DISTANCE LEFT BANK - 8 (METERS)	.
DEPTH OF WATER - 8 (METERS)	.
VELOCITY - 8 (RPM)	.

AQUATIC ECOLOGY MONITORING PROGRAM - STREAM PHYSICAL DATA

STATION=YC-1 DATE=12APR83

LOCAL WEATHER CONDITIONS			
AIR TEMPERATURE (DEG C)	14		
ESTIMATED WIND DIRECTION (DEG)	123		
ESTIMATED WIND SPEED (MPH)	15		
PERCENT CLOUD COVER	100		
FIELD WATER QUALITY MEASUREMENTS			
WATER TEMPERATURE	REP A =6.5	REP B =6.5	REP C =6
SPECIFIC CONDUCTANCE	REP A =1800	REP B =1775	REP C =1800
DISSOLVED OXYGEN	REP A =16.5	REP B =16	REP C =16
PH	REP A =8.2	REP B =8.2	REP C =8.
VISUAL TURBIDITY ESTIMATE	CLEAR		
CALCULATED TURBIDITY	REP A =.	REP B =4.2	
TOTAL ALKALINITY	REP A =.	REP B =.	
PHENYL ALKALINITY	REP A =.	REP B =.	
STREAM EVALUATION INDEXES			
SUBSTRATE COMPOSITION INDEX	HEAVY SILTING, NO SOLID SUBSTRATE		
FLOW DURING SURVEY INDEX	HIGH WATER - SPRING RUNOFF		
PERCENT RIPARIAN COVER ESTIMATE	0		
BANK VEGETATION RATING	NO CANOPY COVER (0 % COVER)		
BANK STABILITY RATING	UNSTABLE - MODERATE EROSION		
BANK CONDITION RATING	AVERAGE USE AND DAMAGE		
STREAM CHANNEL STABILITY RATING	STABLE - LIGHT CHANNEL EROSION		
STREAM CHANNEL CONDITION RATING	LIGHT USE AND DAMAGE		
STREAM WIDTH AND FLOW MEASUREMENTS			
TOTAL STREAM WIDTH (METERS)	1.4		
DISTANCE LEFT BANK - 1 (METERS)	0.25		
DEPTH OF WATER - 1 (METERS)	0.04		
VELOCITY - 1 (RPM)	16		
DISTANCE LEFT BANK - 2 (METERS)	0.35		
DEPTH OF WATER - 2 (METERS)	0.04		
VELOCITY - 2 (RPM)	62		
DISTANCE LEFT BANK - 3 (METERS)	0.45		
DEPTH OF WATER - 3 (METERS)	0.04		
VELOCITY - 3 (RPM)	106		
DISTANCE LEFT BANK - 4 (METERS)	.		
DEPTH OF WATER - 4 (METERS)	.		
VELOCITY - 4 (RPM)	.		
DISTANCE LEFT BANK - 5 (METERS)	.		
DEPTH OF WATER - 5 (METERS)	.		
VELOCITY - 5 (RPM)	.		
DISTANCE LEFT BANK - 6 (METERS)	.		
DEPTH OF WATER - 6 (METERS)	.		
VELOCITY - 6 (RPM)	.		
DISTANCE LEFT BANK - 7 (METERS)	.		
DEPTH OF WATER - 7 (METERS)	.		
VELOCITY - 7 (RPM)	.		
DISTANCE LEFT BANK - 8 (METERS)	.		
DEPTH OF WATER - 8 (METERS)	.		
VELOCITY - 8 (RPM)	.		

AQUATIC ECOLOGY MONITORING PROGRAM - STREAM PHYSICAL DATA

STATION=YC-2 DATE=14APR83

LOCAL WEATHER CONDITIONS			
AIR TEMPERATURE (DEG C)	34		
ESTIMATED WIND DIRECTION (DEG)	90		
ESTIMATED WIND SPEED (MPH)	5		
PERCENT CLOUD COVER	2		
FIELD WATER QUALITY MEASUREMENTS			
WATER TEMPERATURE	REP A =10	REP B =10	REP C =10
SPECIFIC CONDUCTANCE	REP A =2800	REP B =2800	REP C =2800
DISSOLVED OXYGEN	REP A =12	REP B =12	REP C =12
PH	REP A =7.8	REP B =7.8	REP C =7.8
VISUAL TURBIDITY ESTIMATE	CLEAR		
CALCULATED TURBIDITY	REP A =.	REP B =5.5	
TOTAL ALKALINITY	REP A =.	REP B =.	
PHENYL ALKALINITY	REP A =.	REP B =.	
STREAM EVALUATION INDEXES			
SUBSTRATE COMPOSITION INDEX	MEDIUM SILTING, FEW STONES		
FLOW DURING SURVEY INDEX	HIGH WATER - SPRING RUNOFF		
PERCENT RIPARIAN COVER ESTIMATE	0		
BANK VEGETATION RATING	NO CANOPY COVER (0 % COVER)		
BANK STABILITY RATING	TOTALLY STABLE - NO EROSION		
BANK CONDITION RATING	AVERAGE USE AND DAMAGE		
STREAM CHANNEL STABILITY RATING	TOTALLY STABLE - NO EROSION		
STREAM CHANNEL CONDITION RATING	AVERAGE USE AND DAMAGE		
STREAM WIDTH AND FLOW MEASUREMENTS			
TOTAL STREAM WIDTH (METERS)	1.68		
DISTANCE LEFT BANK - 1 (METERS)	0.01		
DEPTH OF WATER - 1 (METERS)	0.02		
VELOCITY - 1 (RPM)	90		
DISTANCE LEFT BANK - 2 (METERS)	0.02		
DEPTH OF WATER - 2 (METERS)	0.02		
VELOCITY - 2 (RPM)	100		
DISTANCE LEFT BANK - 3 (METERS)	0.04		
DEPTH OF WATER - 3 (METERS)	0.02		
VELOCITY - 3 (RPM)	36		
DISTANCE LEFT BANK - 4 (METERS)	.		
DEPTH OF WATER - 4 (METERS)	.		
VELOCITY - 4 (RPM)	.		
DISTANCE LEFT BANK - 5 (METERS)	.		
DEPTH OF WATER - 5 (METERS)	.		
VELOCITY - 5 (RPM)	.		
DISTANCE LEFT BANK - 6 (METERS)	.		
DEPTH OF WATER - 6 (METERS)	.		
VELOCITY - 6 (RPM)	.		
DISTANCE LEFT BANK - 7 (METERS)	.		
DEPTH OF WATER - 7 (METERS)	.		
VELOCITY - 7 (RPM)	.		
DISTANCE LEFT BANK - 8 (METERS)	.		
DEPTH OF WATER - 8 (METERS)	.		
VELOCITY - 8 (RPM)	.		

APPENDIX 4-2

Water Chemistry Data

AQUATIC ECOLOGY MONITORING PROGRAM - CHEMISTRY DATA

BASIC WATER QUALITY CONSTITUENTS

STATION= CG-1 DATE=12APR83

CALCIUM	82.00
MAGNESIUM	69.00
SODIUM	180.00
POTASSIUM	1.30
IRON	0.06
BICARBONATE	566.00
CARBONATE	-1.00
HYDROXIDE	-0.50
SULFATES	382.00
CHLORIDE	9.60
TOT DIS SOLID	1054.00
TOT SUS SOLID	.
ALKALINITY	477.00
TOT HARDNESS	.
PHOSPHATE	0.03
AMMONIA	-0.05
NITRATE	-0.10
FLUORIDE	0.60
DIS ORG CAR	8.00
ARSENIC	-0.01
BORON	0.08
MERCURY	-0.30
MOLYBDENUM	-0.10
SELENIUM	-0.01
SILICA	22.00
VANADIUM	-0.10

AQUATIC ECOLOGY MONITORING PROGRAM - CHEMISTRY DATA

BASIC WATER QUALITY CONSTITUENTS

STATION= YC-1 DATE=12APR83

CALCIUM	96.00
MAGNESIUM	102.00
SODIUM	220.00
POTASSIUM	2.10
IRON	0.08
BICARBONATE	636.00
CARBONATE	-1.00
HYDROXIDE	-0.50
SULFATES	548.00
CHLORIDE	15.40
TOT DIS SOLID	1316.00
TOT SUS SOLID	.
ALKALINITY	540.00
TOT HARDNESS	.
PHOSPHATE	0.04
AMMONIA	-0.05
NITRATE	-0.10
FLUORIDE	0.60
DIS ORG CAR	12.00
ARSENIC	-0.01
BORON	0.18
MERCURY	-0.30
MOLYBDENUM	-0.10
SELENIUM	-0.01
SILICA	17.00
VANADIUM	-0.10

AQUATIC ECOLOGY MONITORING PROGRAM - CHEMISTRY DATA

BASIC WATER QUALITY CONSTITUENTS

STATION= YC-2 DATE=14APR83

CALCIUM	64.00
MAGNESIUM	210.00
SODIUM	430.00
POTASSIUM	2.90
IRON	-0.05
BICARBONATE	1069.00
CARBONATE	-1.00
HYDROXIDE	-0.50
SULFATES	991.00
CHLORIDE	31.00
TOT DIS SOLID	2360.00
TOT SUS SOLID	.
ALKALINITY	899.00
TOT HARDNESS	.
PHOSPHATE	0.14
AMMONIA	0.09
NITRATE	-0.10
FLUORIDE	1.00
DIS ORG CAR	14.00
ARSENIC	-0.01
BORON	0.42
MERCURY	-0.30
MOLYBDENUM	-0.10
SELENIUM	-0.01
SILICA	18.00
VANADIUM	-0.10

APPENDIX 4-3

Benthic Macroinvertebrate Data

BENTHIC MACROINVERTEBRATE COUNT DATA COLLECTED DURING THE 1983 SEASON

STATION= CG-1
SAMPLING DATE= 12APR83
SAMPLING METHOD= MODIFIED HESS (ELLIPTICAL)
CONVERSION FACTOR TO THE NUMBER OF ORGANISMS / M2 = 19.2

TAXONOMIC NAME	REP #1	REP #2	REP #3	MEAN REPLICATE
CHELIFERA MACQUART	0	0	1	0.3
CHRYSOGASTER SPECIES	1	0	0	0.3
TRIBE DIAMESINI	2	0	0	0.7
HAPLOTAXIS GORDIOIDES	3	3	0	2.0
TRIBE METRIOCNEMINI	1	1	0	0.7
TRIBE ORTHOCLADIINI	1	1	0	0.7
PALPOMYIA GP. SPECIES MEI	0	0	2	0.7
FAMILY TUBIFICIDAE	4	0	7	3.7
TOTAL SPECIES OBSERVED= 8				
TOTAL COUNT	12	5	10	9.0
MEAN COUNT	1.5	0.6	1.3	1.1

BENTHIC MACROINVERTEBRATE COUNT DATA COLLECTED DURING THE 1983 SEASON

STATION= YC-1
SAMPLING DATE= 12APR83
SAMPLING METHOD= MODIFIED PESS (ELLIPTICAL)
CONVERSION FACTOR TO THE NUMBER OF ORGANISMS / M2 = 19.2

TAXONOMIC NAME	REP #1	REP #2	REP #3	MEAN REPLICATE
CHELIFERA MACQUART	1	0	0	0.3
ORDER COLLEMBOLA	0	1	0	0.3
TRIBE METRIOCNEMINI	0	2	2	1.3
TRIBE ORTHOCLADIINI	2	7	12	7.0
PALPOMYIA GP. SPECIES MEI	0	1	0	0.3
TRIBE TANYTARSINI	1	3	0	1.3
FAMILY TUBIFICIDAE	1	1	1	1.0
TOTAL SPECIES OBSERVED= 7				
TOTAL COUNT	5	15	15	11.7
MEAN COUNT	0.7	2.1	2.1	1.7

BENTHIC MACROINVERTEBRATE COUNT DATA COLLECTED DURING THE 1983 SEASON

STATION= YC-2
SAMPLING DATE= 14APR83
SAMPLING METHOD= MODIFIED HESS (ELLIPTICAL)
CONVERSION FACTOR TO THE NUMBER OF ORGANISMS / M2 = 19.2

TAXONOMIC NAME	REP #1	REP #2	REP #3	MEAN REPLICATE
ACARI SPECIES	1	3	2	2.0
ARGIA SPECIES	1	2	0	1.0
CALLIBAETIS SPECIES	0	0	1	0.3
CHIRONOMIDAE PUPAE	3	2	2	2.3
TRIBE CHIRONOMINI	4	3	5	4.0
TRIBE DIAMESINI	0	0	1	0.3
ENALLAGMA SPECIES	1	0	0	0.3
EUPARYPHUS SPECIES	1	0	0	0.3
HELOBDELLA STAGNALIS	84	65	73	74.0
HYALELLA AZTECA SAUSSURE	23	26	27	25.3
HYDROPTILA DALMAN	0	0	3	1.0
TRIBE METRIOCNEMINI	16	17	32	21.7
MICROCYLLOEPUS PUSILLUS	2	3	1	2.0
NEMOTELUS GEOFFROY	0	1	0	0.3
TRIBE ORTHOCLADIINI	92	90	103	95.0
PALPOMYIA GP. SPECIES MEI	271	121	90	161
TRIBE PENTANEURINI	0	1	0	0.3
PERICOMA SPECIES	0	3	3	2.0
SIMULIUM SPECIES	37	55	44	45.3
TABANUS SPECIES	1	1	2	1.3
TRIBE TANYTARSINI	3	19	4	8.7
FAMILY TUBIFICIDAE	126	183	491	267
TOTAL SPECIES OBSERVED= 22				
TOTAL COUNT	666	595	884	715
MEAN COUNT	30.3	27.0	40.2	32.5

APPENDIX 5

Environmental Hydrology Data

APPENDIX 5-1

Field Water Quality Data

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

--------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S22 --------

OBS	DATE	WL	TEMP	PH	SPC_COND
1	06JAN83	58.4	.	.	.
2	08APR83	58.1	.	.	.

--------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S24 --------

OBS	DATE	WL	TEMP	PH	SPC_COND
3	06JAN83	8.9	.	.	.
4	08APR83	8.8	.	.	.

--------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S27S -------

OBS	DATE	WL	TEMP	PH	SPC_COND
5	05JAN83	26.5	10.0	7.2	1500
6	13JAN83	26.4	.	.	.
7	19JAN83	26.4	.	.	.
8	26JAN83	26.4	.	.	.
9	03FEB83	26.3	.	.	.
10	09FEB83	26.2	.	.	.
11	16FEB83	26.2	.	.	.
12	23FEB83	26.2	.	.	.
13	03MAR83	26.1	.	.	.
14	09MAR83	26.1	.	.	.
15	16MAR83	26.0	.	.	.
16	24MAR83	26.0	.	.	.
17	31MAR83	25.9	.	.	.
18	05APR83	26.0	8.7	7.4	1450
19	13APR83	25.5	.	.	.
20	21APR83	25.6	.	.	.
21	27APR83	25.5	.	.	.
22	05MAY83	25.2	.	.	.
23	11MAY83	24.9	.	.	.
24	17MAY83	24.3	.	.	.
25	25MAY83	23.2	.	.	.
26	02JUN83	14.7	.	.	.
27	08JUN83	20.3	.	.	.
28	16JUN83	21.6	.	.	.
29	23JUN83	21.7	.	.	.
30	29JUN83	21.6	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

--------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S28AD -------

OBS	DATE	WL	TEMP	PH	SPC_COND
31	06JAN83	14.8	.	.	.
32	08APR83	14.5	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S28D -------

OBS	DATE	WL	TEMP	PH	SPC_COND
33	06JAN83	18.0	.	.	.
34	08APR83	18.0	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S29D -------

OBS	DATE	WL	TEMP	PH	SPC_COND
35	06JAN83	24.4	.	.	.
36	08APR83	21.6	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S29S -------

OBS	DATE	WL	TEMP	PH	SPC_COND
37	06JAN83	24.2	.	.	.
38	08APR83	22.1	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S7 --------

OBS	DATE	WL	TEMP	PH	SPC_COND
39	05JAN83	26.6	.	.	.
40	13JAN83	25.8	.	.	.
41	19JAN83	25.4	.	.	.
42	26JAN83	24.4	.	.	.
43	03FEB83	24.2	.	.	.
44	09FEB83	23.6	.	.	.
45	16FEB83	23.4	.	.	.
46	23FEB83	23.8	.	.	.
47	03MAR83	23.5	.	.	.
48	09MAR83	24.4	.	.	.
49	16MAR83	23.8	.	.	.
50	24MAR83	23.7	.	.	.
51	31MAR83	23.4	.	.	.
52	07APR83	23.2	.	.	.
53	13APR83	22.7	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S7 --------

OBS	DATE	WL	TEMP	PH	SPC_COND
54	21APR83	21.7	.	.	.
55	27APR83	20.9	.	.	.
56	05MAY83	18.3	.	.	.
57	11MAY83	16.4	.	.	.
58	17MAY83	14.2	.	.	.
59	25MAY83	13.6	.	.	.
60	02JUN83	14.1	.	.	.
61	08JUN83	14.6	.	.	.
62	16JUN83	15.2	.	.	.
63	23JUN83	15.5	.	.	.
64	29JUN83	15.8	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S8 --------

OBS	DATE	WL	TEMP	PH	SPC_COND
65	05JAN83	42.7	.	.	.
66	13JAN83	42.8	.	.	.
67	19JAN83	42.9	.	.	.
68	26JAN83	42.9	.	.	.
69	03FEB83	42.9	.	.	.
70	09FEB83	42.8	.	.	.
71	16FEB83	42.8	.	.	.
72	23FEB83	42.9	.	.	.
73	03MAR83	42.9	.	.	.
74	09MAR83	42.8	.	.	.
75	16MAR83	42.5	.	.	.
76	24MAR83	42.2	.	.	.
77	31MAR83	41.9	.	.	.
78	06APR83	41.0	.	.	.
79	13APR83	38.7	.	.	.
80	21APR83	35.4	.	.	.
81	27APR83	33.1	.	.	.
82	05MAY83	31.3	.	.	.
83	11MAY83	28.3	.	.	.
84	17MAY83	26.7	.	.	.
85	25MAY83	24.1	.	.	.
86	02JUN83	21.9	.	.	.
87	08JUN83	20.9	.	.	.
88	16JUN83	21.5	.	.	.
89	23JUN83	26.5	.	.	.
90	29JUN83	23.4	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=LOWER AQUIFER STATION=GS-15L ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
91	11JAN83	369.0	14.5	.	1700
92	15FEB83	.	.	7.7	.
93	06APR83	368.4	15.3	8.1	3200

---------- REPORT YEAR=1983 TYPE=LOWER AQUIFER STATION=GS-17L ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
94	19APR83	370.4	.	.	.

---------- REPORT YEAR=1983 TYPE=LOWER AQUIFER STATION=GS-19L ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
95	21APR83	135.2	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=AM-2AU ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
96	18APR83	380.3	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=AM-3U ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
97	12JAN83	34.6	12.0	7.6	1050
98	06APR83	33.8	10.9	7.8	1050

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-701U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
99	19APR83	123.3	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-702U ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
100	05JAN83	43.9	.	.	.
101	11JAN83	43.9	14.5	7.7	1450
102	19JAN83	43.5	.	.	.
103	26JAN83	43.2	.	.	.
104	04FEB83	43.3	.	.	.
105	09FEB83	43.3	.	.	.
106	16FEB83	42.8	.	.	.
107	23FEB83	42.7	.	.	.
108	03MAR83	42.2	.	.	.
109	09MAR83	42.6	.	.	.
110	16MAR83	42.3	.	.	.
111	24MAR83	41.5	.	.	.
112	31MAR83	40.9	.	.	.
113	05APR83	39.9	12.5	7.7	1350
114	13APR83	43.1	.	.	.
115	21APR83	42.1	.	.	.
116	27APR83	41.5	.	.	.
117	05MAY83	40.6	.	.	.
118	11MAY83	39.9	.	.	.
119	17MAY83	40.5	.	.	.
120	25MAY83	39.0	.	.	.
121	02JUN83	39.7	.	.	.
122	08JUN83	36.8	.	.	.
123	16JUN83	37.6	.	.	.
124	23JUN83	36.7	.	.	.
125	29JUN83	34.4	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-705AU ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
126	05JAN83	253.4	.	.	.
127	12JAN83	253.2	12.5	7.4	1250
128	19JAN83	252.9	.	.	.
129	26JAN83	253.1	.	.	.
130	03FEB83	253.1	.	.	.
131	09FEB83	253.1	.	.	.
132	16FEB83	252.9	.	.	.
133	23FEB83	253.1	.	.	.
134	03MAR83	252.8	.	.	.
135	09MAR83	252.6	.	.	.
136	16MAR83	252.4	.	.	.
137	24MAR83	252.2	.	.	.
138	31MAR83	252.0	.	.	.
139	05APR83	252.2	10.8	7.6	1200
140	13APR83	251.8	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-705AU -------

OBS	DATE	WL	TEMP	PH	SPC_COND
141	21APR83	252.0	.	.	.
142	27APR83	251.8	.	.	.
143	05MAY83	251.9	.	.	.
144	11MAY83	250.8	.	.	.
145	17MAY83	249.9	.	.	.
146	25MAY83	251.5	.	.	.
147	02JUN83	246.4	.	.	.
148	08JUN83	242.2	.	.	.
149	16JUN83	236.3	.	.	.
150	23JUN83	230.3	.	.	.
151	29JUN83	224.1	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-707U --------

OBS	DATE	WL	TEMP	PH	SPC_COND
152	19APR83	202.5	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-708U --------

OBS	DATE	WL	TEMP	PH	SPC_COND
153	21APR83	64.2	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-709U --------

OBS	DATE	WL	TEMP	PH	SPC_COND
154	05JAN83	264.5	.	.	.
155	11JAN83	263.7	11.0	7.0	1500
156	19JAN83	264.9	.	.	.
157	26JAN83	265.2	.	.	.
158	03FEB83	266.2	.	.	.
159	09FEB83	264.2	.	.	.
160	16FEB83	261.8	.	.	.
161	23FEB83	263.7	.	.	.
162	03MAR83	270.8	.	.	.
163	09MAR83	263.9	.	.	.
164	16MAR83	260.0	.	.	.
165	24MAR83	258.9	.	.	.
166	31MAR83	259.9	.	.	.
167	05APR83	261.9	10.5	7.1	1600
168	13APR83	262.3	.	.	.
169	21APR83	262.3	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-709U ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
170	27APR83	261.8	.	.	.
171	05MAY83	256.7	.	.	.
172	11MAY83	251.7	.	.	.
173	17MAY83	246.6	.	.	.
174	25MAY83	236.4	.	.	.
175	02JUN83	230.3	.	.	.
176	08JUN83	232.9	.	.	.
177	16JUN83	232.9	.	.	.
178	23JUN83	230.7	.	.	.
179	29JUN83	226.6	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-D1U ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
180	05JAN83	575.2	.	.	.
181	12JAN83	575.8	15.0	7.2	1350
182	19JAN83	575.5	.	.	.
183	27JAN83	570.3	.	.	.
184	04FEB83	570.8	.	.	.
185	08FEB83	571.3	.	.	.
186	16FEB83	570.7	.	.	.
187	23FEB83	571.1	.	.	.
188	03MAR83	570.6	.	.	.
189	09MAR83	570.3	.	.	.
190	16MAR83	570.1	.	.	.
191	24MAR83	569.5	.	.	.
192	31MAR83	568.7	.	.	.
193	04APR83	567.6	14.4	7.4	1300
194	13APR83	568.0	.	.	.
195	21APR83	567.2	.	.	.
196	27APR83	567.1	.	.	.
197	05MAY83	566.1	.	.	.
198	11MAY83	565.0	.	.	.
199	17MAY83	563.4	.	.	.
200	25MAY83	567.9	.	.	.
201	02JUN83	564.1	.	.	.
202	08JUN83	556.9	.	.	.
203	16JUN83	557.7	.	.	.
204	22JUN83	554.9	.	.	.
205	29JUN83	557.1	.	.	.

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ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-D3U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
206	05JAN83	624.9	.	.	.
207	11JAN83	627.3	15.0	7.3	1425
208	19JAN83	632.1	.	.	.
209	27JAN83	624.5	.	.	.
210	04FEB83	622.9	.	.	.
211	07FEB83	622.9	.	.	.
212	16FEB83	622.3	.	.	.
213	23FEB83	622.2	.	.	.
214	03MAR83	622.0	.	.	.
215	09MAR83	621.5	.	.	.
216	16MAR83	620.9	.	.	.
217	24MAR83	621.8	.	.	.
218	31MAR83	620.5	.	.	.
219	05APR83	621.6	14.7	7.6	1300
220	13APR83	621.0	.	.	.
221	21APR83	620.4	.	.	.
222	27APR83	620.2	.	.	.
223	05MAY83	619.9	.	.	.
224	11MAY83	619.9	.	.	.
225	17MAY83	619.8	.	.	.
226	25MAY83	618.2	.	.	.
227	02JUN83	617.0	.	.	.
228	08JUN83	616.4	.	.	.
229	16JUN83	615.9	.	.	.
230	22JUN83	615.5	.	.	.
231	29JUN83	614.7	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-D6U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
232	13JAN83	339.3	.	.	.
233	14FEB83	337.8	.	.	.
234	16MAR83	336.9	.	.	.
235	07APR83	336.4	.	.	.
236	25MAY83	333.7	.	.	.
237	23JUN83	316.9	.	.	.

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FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-D8U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
238	13JAN83	213.7	.	.	.
239	14FEB83	212.5	.	.	.
240	16MAR83	212.1	.	.	.
241	07APR83	211.9	.	.	.
242	25MAY83	206.5	.	.	.
243	23JUN83	186.7	.	.	.

--------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-MDP2CU --------

OBS	DATE	WL	TEMP	PH	SPC_COND
244	05JAN83	590.4	.	.	.
245	11JAN83	589.5	16.0	7.7	1500
246	19JAN83	588.5	.	.	.
247	27JAN83	590.3	.	.	.
248	04FEB83	591.4	.	.	.
249	07FEB83	591.7	.	.	.
250	16FEB83	591.3	.	.	.
251	23FEB83	589.1	.	.	.
252	03MAR83	589.7	.	.	.
253	09MAR83	587.7	.	.	.
254	16MAR83	586.3	.	.	.
255	24MAR83	586.6	.	.	.
256	31MAR83	591.9	.	.	.
257	04APR83	587.2	15.1	7.7	1700
258	13APR83	585.8	.	.	.
259	21APR83	586.3	.	.	.
260	27APR83	587.6	.	.	.
261	05MAY83	587.0	.	.	.
262	11MAY83	590.2	.	.	.
263	17MAY83	590.1	.	.	.
264	25MAY83	590.2	.	.	.
265	02JUN83	577.1	.	.	.
266	08JUN83	574.9	.	.	.
267	16JUN83	575.1	.	.	.
268	22JUN83	569.7	.	.	.
269	29JUN83	560.8	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M1U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
270	19APR83	609.7	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M10U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
271	11JAN83	52.1	10.0	7.1	1300
272	06APR83	51.1	8.7	7.3	1250

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M11U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
273	18APR83	25.2	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M12U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
274	10JAN83	433.0	13.0	7.0	1450
275	06APR83	432.3	12.9	7.3	1400

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M2U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
276	19APR83	217.4	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M3U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
277	10JAN83	11.8	9.0	9.4	1300
278	06APR83	11.2	7.7	9.6	1250

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M4U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
279	19APR83	533.5	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M5U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
280	19APR83	233.2	.	.	.

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FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M6U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
281	19APR83	468.7	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M7U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
282	19APR83	423.8	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M8U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
283	21APR83	52.5	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-M9U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
284	22APR83	284.7	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-10U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
285	18APR83	398.8	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-11U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
286	20APR83	460.7	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-15U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
287	11JAN83	301.2	13.0	.	1450
288	15FEB83	.	.	7.2	.
289	06APR83	300.2	12.6	7.4	2050

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
FIELD WATER QUALITY DATA - TRACT C-A

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-2-3U ---------

OBS	DATE	WL	TEMP	PH	SPC_COND
290	19APR83	187.6	.	.	.

---------- REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-9U ----------

OBS	DATE	WL	TEMP	PH	SPC_COND
291	13JAN83	337.5	.	.	.
292	14FEB83	340.5	.	.	.
293	16MAR83	343.3	.	.	.
294	07APR83	344.5	.	.	.
295	25MAY83	319.9	.	.	.
296	23JUN83	326.2	.	.	.

APPENDIX 5-2

Development Activities Monitoring Field Data

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YBOXFL ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
1	05JAN83	10.5	7.6	1400	179.5	.	.
2	13JAN83	11.0	7.5	1350	179.5	.	.
3	19JAN83	9.5	7.5	1400	179.5	.	.
4	24JAN83	8.5	7.5	1350	179.5	.	.
5	03FEB83	9.0	7.6	1350	179.5	.	.
6	09FEB83	10.0	7.5	1400	166.1	.	.
7	16FEB83	10.3	7.5	1400	179.5	.	.
8	23FEB83	12.7	7.5	1350	206.4	.	.
9	03MAR83	10.5	7.4	1300	193.0	.	.
10	09MAR83	12.0	7.4	1300	219.9	.	.
11	16MAR83	13.0	7.4	1400	273.8	.	.
12	24MAR83	9.9	7.3	1400	242.4	.	.
13	31MAR83	10.2	7.5	1400	288.9	.	.
14	07APR83	9.6	7.0	1400	273.8	.	.
15	11APR83	9.8	7.4	1400	260.3	.	.
16	21APR83	14.0	7.9	1150	1180.3	.	.
17	27APR83	7.7	8.1	1100	2428.0	.	.
18	05MAY83	12.2	8.1	1200	.	.	.
19	11MAY83	6.7	8.1	1150	.	.	.
20	17MAY83	7.9	8.0	1100	.	.	.
21	25MAY83	13.6	8.0	1100	.	.	.
22	02JUN83	7.7	8.1	1100	.	.	.
23	08JUN83	9.5	8.0	1100	.	.	.
24	16JUN83	14.5	7.8	1050	.	.	.
25	23JUN83	14.5	7.9	1100	.	.	.
26	29JUN83	14.4	8.0	1150	.	.	.

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOFL ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
27	05JAN83	6.0	7.8	1500	.	.	.
28	13JAN83	6.5	7.7	1450	.	.	.
29	19JAN83	5.5	7.7	1500	23.8	.	.
30	24JAN83	2.0	7.8	1450	23.8	.	.
31	03FEB83	3.0	7.7	1400	26.0	.	.
32	09FEB83	6.0	7.7	1500	23.8	.	.
33	16FEB83	5.8	7.7	1500	28.7	.	.
34	23FEB83	8.5	7.5	900	45.8	.	.
35	03MAR83	4.5	7.6	700	83.9	.	.
36	09MAR83	9.5	7.6	500	152.1	.	.
37	16MAR83	13.0	7.6	1500	34.1	.	.
38	24MAR83	5.5	7.5	1550	31.4	.	.
39	31MAR83	7.4	7.6	1550	28.7	.	.
40	07APR83	7.7	7.5	1550	31.4	.	.
41	11APR83	7.2	7.7	1500	28.7	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOFL ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
42	21APR83	15.0	7.7	1500	26.0	.	.
43	27APR83	8.3	8.2	1300	212.7	.	.
44	05MAY83	15.3	8.0	1350	.	.	.
45	11MAY83	7.2	8.0	1250	.	.	.
46	17MAY83	9.1	8.0	1225	.	.	.
47	25MAY83	18.4	7.9	1400	.	.	.
48	02JUN83	9.7	7.9	1425	.	.	.
49	08JUN83	13.6	7.9	1400	.	.	.
50	16JUN83	19.2	7.7	1400	.	.	.
51	23JUN83	21.8	7.9	1300	.	.	.
52	29JUN83	20.8	8.0	1350	.	.	.

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOINJ ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
53	01JAN83	10.0	8.0	1400	.	4	.
54	02JAN83	9.5	8.1	1400	.	7	.
55	03JAN83	9.5	7.3	1450	.	3	.
56	04JAN83	10.0	7.7	1400	.	5	.
57	05JAN83	10.0	7.5	1450	.	3	.
58	06JAN83	11.0	7.5	1450	.	7	.
59	07JAN83	10.5	7.6	1425	.	3	.
60	08JAN83	9.9	8.0	1450	.	7	.
61	09JAN83	8.3	7.7	1425	.	4	.
62	10JAN83	9.5	7.8	1450	.	2	.
63	11JAN83	9.0	7.5	1450	.	5	.
64	12JAN83	10.0	7.5	1450	.	4	.
65	13JAN83	11.0	7.9	1400	.	6	.
66	14JAN83	11.0	7.7	1425	.	4	.
67	15JAN83	10.0	7.7	1425	.	3	.
68	16JAN83	9.5	7.9	1425	.	5	.
69	17JAN83	11.0	7.5	1400	.	6	.
70	18JAN83	11.0	7.4	1400	.	4	.
71	19JAN83	10.5	7.6	1400	.	7	.
72	20JAN83	10.5	7.8	1400	.	3	.
73	21JAN83	11.0	7.7	1400	.	5	.
74	22JAN83	9.8	7.9	1425	.	4	.
75	23JAN83	11.5	7.8	1400	.	.	.
76	24JAN83	11.5	7.8	1400	.	.	.
77	25JAN83	12.0	7.8	1350	.	.	.
78	26JAN83	11.0	7.8	1350	.	.	.
79	27JAN83	12.0	7.7	1400	.	.	.
80	28JAN83	12.0	7.7	1350	.	.	.
81	29JAN83	11.0	7.7	1500	.	.	.
82	30JAN83	11.0	7.0	1500	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOINJ ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
83	31JAN83	11.0	7.8	1400	.	.	.
84	01FEB83	12.0	7.7	1400	.	.	.
85	02FEB83	10.5	7.5	1400	.	.	.
86	03FEB83	10.0	7.8	1400	.	.	.
87	04FEB83	10.5	7.4	1450	.	.	.
88	05FEB83	10.5	7.5	1400	.	.	.
89	06FEB83	10.5	7.6	1400	.	.	.
90	07FEB83	10.5	7.7	1400	.	.	.
91	08FEB83	11.0	7.6	1400	.	.	.
92	09FEB83	11.5	7.9	1400	.	.	.
93	10FEB83	10.5	7.6	1450	.	.	.
94	11FEB83	11.0	7.8	1400	.	.	.
95	12FEB83	10.0	7.4	1600	.	.	.
96	13FEB83	9.0	7.8	1600	.	.	.
97	14FEB83	12.0	7.8	1450	.	.	.
98	15FEB83	11.0	7.7	1400	.	.	.
99	16FEB83	11.0	7.9	1400	.	.	.
100	17FEB83	12.0	7.8	1500	.	.	.
101	18FEB83	14.0	8.0	1500	.	.	.
102	19FEB83	14.0	7.9	1550	.	.	.
103	20FEB83	14.0	7.9	1550	.	.	.
104	21FEB83	16.0	7.8	1500	.	.	.
105	22FEB83	16.0	7.8	1530	.	.	.
106	23FEB83	13.0	7.7	1500	.	.	.
107	24FEB83	13.5	7.9	1450	.	.	.
108	25FEB83	13.5	7.7	1500	.	.	.
109	26FEB83	10.3	7.9	1450	.	.	.
110	27FEB83	10.0	7.8	1500	.	.	.
111	28FEB83	15.0	7.9	1500	.	.	.
112	01MAR83	13.0	8.0	1500	.	.	.
113	02MAR83	13.0	7.9	1400	.	.	.
114	03MAR83	12.5	7.9	1400	.	.	.
115	04MAR83	13.0	7.8	1400	.	.	.
116	05MAR83	14.0	7.5	1750	.	.	.
117	06MAR83	13.0	7.9	1700	.	.	.
118	07MAR83	12.0	7.7	1400	.	.	.
119	08MAR83	12.0	7.7	1400	.	.	.
120	09MAR83	12.5	7.8	1400	.	.	.
121	10MAR83	13.0	7.8	1350	.	.	.
122	11MAR83	13.0	7.8	1350	.	.	.
123	12MAR83	13.0	7.8	1500	.	.	.
124	13MAR83	12.8	7.8	1475	.	.	.
125	14MAR83	14.0	7.7	1400	.	.	.
126	15MAR83	13.0	7.8	1400	.	.	.
127	16MAR83	12.5	7.6	1400	.	.	.
128	17MAR83	13.0	7.7	1400	.	.	.
129	18MAR83	12.5	7.4	1400	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOINJ ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
130	20MAR83	14.5	7.4	1500	.	.	.
131	21MAR83	12.7	7.5	1400	.	.	.
132	22MAR83	12.9	7.6	1425	.	.	.
133	23MAR83	13.0	7.7	1400	.	.	.
134	24MAR83	12.5	7.6	1400	.	.	.
135	25MAR83	12.0	7.6	1400	.	.	.
136	27MAR83	13.0	7.8	1500	.	.	.
137	28MAR83	14.0	7.7	1475	.	.	.
138	29MAR83	14.0	7.6	1500	.	.	.
139	30MAR83	13.0	8.0	1475	.	.	.
140	31MAR83	13.5	8.0	1400	.	.	.
141	01APR83	13.0	8.1	1600	.	.	.
142	02APR83	13.0	7.9	1700	.	.	.
143	03APR83	12.0	7.9	1600	.	.	.
144	04APR83	11.5	7.7	1400	.	.	.
145	05APR83	11.6	7.6	1400	.	.	.
146	06APR83	11.7	7.8	1400	.	.	.
147	07APR83	11.5	7.7	1450	.	.	.
148	08APR83	11.8	7.8	1450	.	.	.
149	10APR83	14.0	8.0	1600	.	.	.
150	11APR83	12.7	8.0	1400	.	.	.
151	12APR83	12.9	8.1	1400	.	.	.
152	13APR83	12.4	7.6	1400	.	.	.
153	14APR83	12.2	7.8	1400	.	.	.
154	15APR83	12.3	7.8	1400	.	.	.
155	16APR83	15.0	8.0	1550	.	.	.
156	17APR83	14.0	8.0	1600	.	.	.
157	18APR83	12.3	7.7	1400	.	.	.
158	19APR83	13.8	7.8	1400	.	.	.
159	20APR83	14.3	7.5	1400	.	.	.
160	21APR83	14.2	7.9	1500	.	.	.
161	22APR83	14.3	7.9	1450	.	.	.
162	23APR83	13.0	8.0	1850	.	.	.
163	24APR83	14.0	8.0	1900	.	.	.
164	25APR83	16.0	8.1	1600	.	.	.
165	26APR83	18.0	7.9	1450	.	.	.
166	27APR83	16.0	8.1	1500	.	.	.
167	28APR83	15.0	8.0	1500	.	.	.
168	29APR83	16.0	8.0	1575	.	.	.
169	30APR83	17.0	8.0	1550	.	.	.
170	02MAY83	13.4	8.0	1450	.	.	.
171	03MAY83	13.2	7.8	1400	.	.	.
172	04MAY83	18.0	7.9	1575	.	.	.
173	05MAY83	14.1	7.9	1400	.	.	.
174	06MAY83	14.2	8.0	1400	.	.	.
175	09MAY83	14.9	8.0	1400	.	.	.
176	10MAY83	14.9	8.0	1450	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YCOINJ ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
177	11MAY83	14.3	8.0	1400	.	.	.
178	12MAY83	18.0	8.0	1500	.	.	.
179	13MAY83	13.9	7.8	1400	.	.	.
180	14MAY83	18.0	7.9	1575	.	.	.
181	15MAY83	16.0	7.9	1550	.	.	.
182	16MAY83	13.9	7.9	1400	.	.	.
183	17MAY83	12.6	7.8	1400	.	.	.
184	18MAY83	11.6	7.9	1400	.	.	.
185	19MAY83	16.0	7.8	1575	.	.	.
186	20MAY83	18.0	7.9	1600	.	.	.
187	21MAY83	14.0	8.0	1500	.	.	.
188	23MAY83	14.7	7.8	1400	.	.	.
189	24MAY83	19.0	7.9	1575	.	.	.
190	25MAY83	15.7	7.9	1400	.	.	.
191	27MAY83	16.3	7.9	1400	.	.	.
192	30MAY83	18.0	8.0	1500	.	.	.
193	31MAY83	16.8	8.0	1400	.	.	.
194	01JUN83	18.0	7.9	1400	.	.	.
195	02JUN83	15.5	8.0	1400	.	.	.
196	03JUN83	15.9	8.0	1400	.	.	.
197	04JUN83	19.0	7.9	1400	.	.	.
198	05JUN83	19.0	7.8	1500	.	.	.
199	06JUN83	15.4	7.9	1400	.	.	.
200	07JUN83	16.8	7.9	1400	.	.	.
201	08JUN83	15.4	7.8	1400	.	.	.
202	09JUN83	21.0	7.8	1500	.	.	.
203	10JUN83	16.1	7.8	1400	.	.	.
204	11JUN83	17.0	8.2	1500	.	.	.
205	12JUN83	18.0	8.0	1500	.	.	.
206	13JUN83	16.0	7.8	1400	.	.	.
207	14JUN83	15.4	7.8	1400	.	.	.
208	15JUN83	15.8	7.8	1400	.	.	.
209	16JUN83	16.5	7.7	1400	.	.	.
210	17JUN83	26.0	8.1	1700	.	.	.
211	18JUN83	19.0	8.0	1500	.	.	.
212	20JUN83	17.8	7.7	1400	.	.	.
213	21JUN83	23.0	8.1	1550	.	.	.
214	22JUN83	17.5	7.9	1400	.	.	.
215	23JUN83	17.8	7.8	1400	.	.	.
216	24JUN83	17.9	7.9	1400	.	.	.
217	27JUN83	17.3	7.8	1450	.	.	.
218	28JUN83	17.3	7.7	1400	.	.	.
219	29JUN83	17.4	7.9	1400	.	.	.
220	30JUN83	17.6	7.9	1400	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

REPORT YEAR=1983 TYPE=DAMS STATION=YFLDIS

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
221	01JAN83	5.5	8.2	1625	.	6	.
222	02JAN83	6.5	8.2	1650	.	7	.
223	03JAN83	6.0	7.6	1700	.	3	.
224	04JAN83	6.0	7.9	1750	.	5	.
225	05JAN83	6.0	7.8	1750	.	4	.
226	06JAN83	7.0	7.8	1800	.	6	.
227	07JAN83	6.0	7.8	1800	.	3	.
228	08JAN83	5.3	7.6	1750	.	7	.
229	09JAN83	6.0	8.1	1725	.	4	.
230	10JAN83	6.0	7.6	1800	.	4	.
231	11JAN83	6.0	7.8	1750	.	5	.
232	12JAN83	6.0	7.8	1700	.	3	.
233	13JAN83	7.0	8.0	1700	.	6	.
234	14JAN83	7.0	7.9	1700	.	2	.
235	15JAN83	6.5	8.0	1750	.	5	.
236	16JAN83	6.8	7.9	1725	.	7	.
237	17JAN83	7.0	7.9	1700	.	4	.
238	18JAN83	7.0	7.8	1700	.	3	.
239	19JAN83	7.5	7.8	1700	.	6	.
240	20JAN83	7.0	7.9	1700	.	2	.
241	21JAN83	7.0	7.9	1700	.	5	.
242	22JAN83	7.2	7.8	1700	.	4	.
243	23JAN83	7.5	7.8	1700	.	.	.
244	24JAN83	7.5	7.8	1700	.	.	.
245	25JAN83	7.5	7.8	1700	.	.	.
246	26JAN83	7.0	7.7	1750	.	.	.
247	27JAN83	9.0	7.9	1700	.	.	.
248	28JAN83	8.5	7.6	1700	.	.	.
249	29JAN83	10.0	8.0	1900	.	.	.
250	30JAN83	9.0	7.8	1800	.	.	.
251	31JAN83	7.5	7.7	1750	.	.	.
252	01FEB83	7.5	7.6	1700	.	.	.
253	02FEB83	7.0	7.7	1700	.	.	.
254	03FEB83	7.0	7.7	1700	.	.	.
255	04FEB83	7.0	7.5	1800	.	.	.
256	05FEB83	7.0	7.5	1800	.	.	.
257	06FEB83	7.0	7.4	1800	.	.	.
258	07FEB83	7.0	7.4	1800	.	.	.
259	08FEB83	7.5	7.8	1750	.	.	.
260	09FEB83	7.5	7.9	1750	.	.	.
261	10FEB83	8.0	7.8	1750	.	.	.
262	11FEB83	8.0	7.6	1800	.	.	.
263	12FEB83	7.0	7.7	2000	.	.	.
264	13FEB83	7.0	7.4	2000	.	.	.
265	14FEB83	7.5	7.7	1800	.	.	.
266	15FEB83	7.0	7.8	1750	.	.	.
267	16FEB83	6.5	7.9	1800	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YFLDIS ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
268	17FEB83	9.0	7.7	1825	.	.	.
269	18FEB83	9.0	7.9	1800	.	.	.
270	19FEB83	8.0	7.8	1900	.	.	.
271	20FEB83	9.0	7.9	1870	.	.	.
272	21FEB83	10.0	7.8	1825	.	.	.
273	22FEB83	10.0	7.8	1870	.	.	.
274	23FEB83	7.0	7.5	1800	.	.	.
275	24FEB83	9.0	7.6	1800	.	.	.
276	25FEB83	8.0	7.6	1800	.	.	.
277	26FEB83	6.7	7.7	1825	.	.	.
278	27FEB83	7.0	7.6	1900	.	.	.
279	28FEB83	9.0	7.6	1800	.	.	.
280	01MAR83	9.0	7.7	1825	.	.	.
281	02MAR83	7.0	7.8	1700	.	.	.
282	03MAR83	7.0	7.9	1700	.	.	.
283	04MAR83	6.5	7.7	1700	.	.	.
284	05MAR83	7.0	7.8	1800	.	.	.
285	06MAR83	7.0	7.7	1850	.	.	.
286	07MAR83	6.5	7.5	1700	.	.	.
287	08MAR83	6.0	7.6	1700	.	.	.
288	09MAR83	6.0	7.6	1700	.	.	.
289	10MAR83	6.5	7.8	1650	.	.	.
290	11MAR83	7.0	7.8	1700	.	.	.
291	12MAR83	8.0	7.8	1800	.	.	.
292	13MAR83	7.7	7.7	1800	.	.	.
293	14MAR83	8.0	7.8	1700	.	.	.
294	15MAR83	7.5	7.7	1700	.	.	.
295	16MAR83	6.5	7.7	1700	.	.	.
296	17MAR83	6.0	7.6	1725	.	.	.
297	18MAR83	6.0	7.5	1700	.	.	.
298	20MAR83	6.5	8.0	1800	.	.	.
299	21MAR83	5.0	7.8	1700	.	.	.
300	22MAR83	5.1	7.8	1650	.	.	.
301	23MAR83	5.5	7.8	1650	.	.	.
302	24MAR83	5.1	7.6	1700	.	.	.
303	25MAR83	4.8	7.5	1650	.	.	.
304	27MAR83	7.0	7.7	1825	.	.	.
305	28MAR83	6.0	7.8	1800	.	.	.
306	29MAR83	7.0	7.8	1800	.	.	.
307	30MAR83	8.0	7.8	1800	.	.	.
308	31MAR83	5.9	8.0	1700	.	.	.
309	01APR83	6.0	7.8	1900	.	.	.
310	02APR83	7.0	7.3	2000	.	.	.
311	03APR83	6.0	7.3	2000	.	.	.
312	04APR83	4.6	7.7	1700	.	.	.
313	05APR83	4.6	7.5	1700	.	.	.
314	06APR83	4.5	7.9	1600	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YFLDIS ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
315	07APR83	4.6	7.6	1700	.	.	.
316	08APR83	3.6	7.9	1700	.	.	.
317	10APR83	8.0	7.9	1850	.	.	.
318	11APR83	5.1	8.0	1700	.	.	.
319	12APR83	5.3	8.1	1700	.	.	.
320	13APR83	4.7	7.7	1650	.	.	.
321	14APR83	5.4	7.6	1700	.	.	.
322	15APR83	5.7	7.6	1700	.	.	.
323	16APR83	8.0	7.9	1850	.	.	.
324	17APR83	8.0	8.0	1800	.	.	.
325	18APR83	5.9	7.9	1700	.	.	.
326	19APR83	6.8	7.9	1700	.	.	.
327	20APR83	6.7	7.6	1750	.	.	.
328	21APR83	7.2	7.9	1800	.	.	.
329	22APR83	7.3	7.9	1750	.	.	.
330	23APR83	7.0	7.9	1600	.	.	.
331	24APR83	7.0	7.9	1700	.	.	.
332	25APR83	10.0	7.8	2000	.	.	.
333	26APR83	12.0	8.0	1800	.	.	.
334	27APR83	10.0	7.8	1850	.	.	.
335	28APR83	11.0	7.9	1900	.	.	.
336	29APR83	10.0	7.9	1850	.	.	.
337	30APR83	10.0	7.9	1850	.	.	.
338	02MAY83	8.4	7.8	1700	.	.	.
339	03MAY83	7.8	7.7	1700	.	.	.
340	04MAY83	10.0	7.8	1800	.	.	.
341	05MAY83	9.1	7.8	1700	.	.	.
342	06MAY83	7.9	8.0	1700	.	.	.
343	09MAY83	9.1	7.9	1700	.	.	.
344	10MAY83	9.9	7.9	1700	.	.	.
345	11MAY83	8.9	8.0	1750	.	.	.
346	12MAY83	12.0	7.8	1850	.	.	.
347	13MAY83	8.5	7.8	1700	.	.	.
348	14MAY83	12.0	7.8	1850	.	.	.
349	15MAY83	11.0	7.8	1800	.	.	.
350	16MAY83	8.0	7.8	1700	.	.	.
351	17MAY83	8.0	7.7	1700	.	.	.
352	18MAY83	7.3	7.8	1650	.	.	.
353	19MAY83	10.0	7.4	1900	.	.	.
354	20MAY83	11.0	7.4	1800	.	.	.
355	21MAY83	10.0	7.6	1800	.	.	.
356	23MAY83	9.4	7.7	1600	.	.	.
357	24MAY83	14.0	7.8	1800	.	.	.
358	25MAY83	10.8	7.9	1600	.	.	.
359	27MAY83	10.7	7.8	1700	.	.	.
360	30MAY83	13.0	7.9	1700	.	.	.
361	31MAY83	11.6	7.8	1600	.	.	.

RIO ELANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YFLDIS ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
362	01JUN83	13.0	7.9	1500	.	.	.
363	02JUN83	11.8	8.1	1600	.	.	.
364	03JUN83	11.8	8.0	1600	.	.	.
365	04JUN83	13.0	7.9	1600	.	.	.
366	05JUN83	13.0	7.2	1750	.	.	.
367	06JUN83	11.6	7.9	1600	.	.	.
368	07JUN83	14.1	7.9	1650	.	.	.
369	08JUN83	12.5	7.7	1650	.	.	.
370	09JUN83	18.5	7.9	1600	.	.	.
371	10JUN83	11.8	7.9	1650	.	.	.
372	11JUN83	14.0	8.0	1700	.	.	.
373	12JUN83	14.0	7.9	1600	.	.	.
374	13JUN83	13.0	7.8	1600	.	.	.
375	14JUN83	11.9	7.8	1600	.	.	.
376	15JUN83	12.0	7.8	1650	.	.	.
377	16JUN83	12.4	7.8	1600	.	.	.
378	17JUN83	15.0	8.1	1600	.	.	.
379	18JUN83	14.0	7.9	1600	.	.	.
380	20JUN83	13.6	7.9	1600	.	.	.
381	21JUN83	16.0	8.2	1600	.	.	.
382	22JUN83	15.7	7.7	1650	.	.	.
383	23JUN83	14.4	7.6	1650	.	.	.
384	24JUN83	15.4	7.9	1600	.	.	.
385	27JUN83	15.2	7.7	1650	.	.	.
386	28JUN83	15.6	7.8	1650	.	.	.
387	29JUN83	15.2	8.0	1650	.	.	.
388	30JUN83	16.4	7.9	1600	.	.	.

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YJEFFPOND ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
389	05JAN83	16.0	7.4	1450	.	.	.
390	13JAN83	14.5	7.6	1400	.	.	.
391	19JAN83	14.0	7.6	1400	.	.	.
392	24JAN83	14.5	7.5	1400	.	.	.
393	02FEB83	14.0	7.5	1350	.	.	.
394	09FEB83	15.0	7.6	1400	.	.	.
395	16FEB83	15.0	7.7	1450	.	.	.
396	23FEB83	16.0	7.6	1450	.	.	.
397	03MAR83	14.5	7.7	1400	.	.	.
398	09MAR83	15.5	7.6	1350	.	.	.
399	16MAR83	14.5	7.5	1400	.	.	.
400	24MAR83	14.7	7.4	1450	.	.	.
401	31MAR83	15.0	7.6	1400	.	.	.
402	07APR83	14.7	7.5	1450	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

REPORT YEAR=1983 TYPE=DAMS STATION=YJEFFPOND

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
403	11APR83	15.2	7.3	1400	.	.	.
404	21APR83	15.4	7.6	1450	.	.	.
405	27APR83	16.6	7.8	1400	.	.	.
406	05MAY83	14.7	7.7	1400	.	.	.
407	11MAY83	14.3	7.7	1400	.	.	.
408	17MAY83	13.6	7.7	1300	.	.	.
409	25MAY83	16.5	7.7	1400	.	.	.
410	02JUN83	14.4	7.8	1400	.	.	.
411	08JUN83	15.4	7.5	1400	.	.	.
412	16JUN83	16.1	7.8	1375	.	.	.
413	22JUN83	16.5	7.5	1400	.	.	.
414	29JUN83	16.6	7.7	1400	.	.	.

REPORT YEAR=1983 TYPE=DAMS STATION=YMET3

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
415	05JAN83	10.0	7.7	1400	.	.	.
416	13JAN83	11.0	7.5	1350	.	.	.
417	19JAN83	10.0	7.6	1400	203.3	.	.
418	24JAN83	8.0	7.7	1350	203.3	.	.
419	03FEB83	8.5	7.6	1350	205.5	.	.
420	09FEB83	9.5	7.5	1400	189.9	.	.
421	16FEB83	10.0	7.6	1450	208.2	.	.
422	23FEB83	12.0	7.5	1300	252.2	.	.
423	03MAR83	10.0	7.5	1250	276.9	.	.
424	09MAR83	10.5	7.4	1050	372.0	.	.
425	16MAR83	13.0	7.5	1400	307.9	.	.
426	24MAR83	9.6	7.5	1400	273.8	.	.
427	31MAR83	10.0	7.5	1400	317.6	.	.
428	07APR83	9.7	7.1	1450	305.2	.	.
429	11APR83	9.6	7.6	1400	289.0	.	.
430	21APR83	17.0	7.6	1100	1206.3	.	.
431	27APR83	7.7	8.2	1200	2640.7	.	.
432	05MAY83	13.3	8.0	1250	.	.	.
433	11MAY83	7.0	8.0	1200	.	.	.
434	17MAY83	8.4	8.0	1150	.	.	.
435	25MAY83	14.4	7.9	1200	.	.	.
436	02JUN83	9.6	8.0	1400	.	.	.
437	08JUN83	13.1	7.9	1300	.	.	.
438	16JUN83	17.5	7.8	1250	.	.	.
439	23JUN83	16.6	7.9	1150	.	.	.
440	29JUN83	15.6	8.0	1200	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
DEVELOPMENT ACTIVITIES MONITORING DATA

---------- REPORT YEAR=1983 TYPE=DAMS STATION=YSEOFL ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
441	24JAN83	1.5	7.4	1800	103.2	.	.
442	14FEB83	4.7	7.6	1500	166.1	.	.
443	16MAR83	10.5	7.9	1700	143.6	.	.
444	11APR83	6.8	7.5	1800	179.5	.	.
445	25MAY83	19.5	7.7	1300	.	.	.
446	23JUN83	13.5	7.7	1300	.	.	.

---------- REPORT YEAR=1983 TYPE=SEEP STATION=SPG-MILL ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
447	21JAN83	9.0	7.2	1650	.	.	.
448	11APR83	9.5	7.1	1600	0	.	.

---------- REPORT YEAR=1983 TYPE=SEEP STATION=SPG-14 ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
449	11APR83	6.9	7.2	1750	17.5	.	.

---------- REPORT YEAR=1983 TYPE=SEEP STATION=SPG-20 ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
450	20JAN83	1.0	7.8	1100	70	.	.
451	15APR83	8.3	7.2	1250	45	.	.

---------- REPORT YEAR=1983 TYPE=SEEP STATION=SPG-4 ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
452	20JAN83	4.0	7.6	1100	2	.	.
453	11APR83	10.4	7.2	1100	4	.	.

---------- REPORT YEAR=1983 TYPE=SEEP STATION=SPG-5 ----------

OBS	DATE	TEMP	PH	COND	FLOW	TSS	PRESSURE
454	21JAN83	3.5	7.5	1350	.	.	.
455	11APR83	8.3	8.2	1400	20	.	.

APPENDIX 5-3

U.S.G.S. Gaging Station Data - 1983

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=B-CORRAL GULCH - WEST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN82	0.12	.	.	.	.	.	.	.	.
02JAN82	0.11	.	.	.	.	.	.	.	.
03JAN82	0.11	.	.	.	.	.	.	.	.
04JAN82	0.11	.	.	.	.	.	.	.	.
05JAN82	0.11	.	.	.	.	.	.	.	.
06JAN82	0.11	.	.	.	.	.	.	.	.
07JAN82	0.11	.	.	.	.	.	.	.	.
08JAN82	0.11	.	.	.	.	.	.	.	.
09JAN82	0.11	.	.	.	.	.	.	.	.
10JAN82	0.11	.	.	.	.	.	.	.	.
11JAN82	0.11	.	.	.	.	.	.	.	.
12JAN82	0.11	.	.	.	.	.	.	.	.
13JAN82	0.11	.	.	.	.	.	.	.	.
14JAN82	0.11	.	.	.	.	.	.	.	.
15JAN82	0.11	.	.	.	.	.	.	.	.
16JAN82	0.13	.	.	.	.	.	.	.	.
17JAN82	0.11	.	.	.	.	.	.	.	.
18JAN82	0.11	.	.	.	.	.	.	.	.
19JAN82	0.11	.	.	.	.	.	.	.	.
20JAN82	0.10	.	.	.	.	.	.	.	.
21JAN82	0.14	.	.	.	.	.	.	.	.
22JAN82	0.08	.	.	.	.	.	.	.	.
23JAN82	0.75	.	.	.	.	.	.	.	.
24JAN82	0.19	.	.	.	.	.	.	.	.
25JAN82	0.14	.	.	.	.	.	.	.	.
26JAN82	0.14	.	.	.	.	.	.	.	.
27JAN82	0.07	.	.	.	.	.	.	.	.
28JAN82	0.07	.	.	.	.	.	.	.	.
29JAN82	0.15	.	.	.	.	.	.	.	.
30JAN82	0.17	.	.	.	.	.	.	.	.
31JAN82	0.33	.	.	.	.	.	.	.	.

-------- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=A-DRY FORK -----

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN82	0	.	.	.	.	.	.	.	.
02JAN82	0	.	.	.	.	.	.	.	.
03JAN82	0	.	.	.	.	.	.	.	.
04JAN82	0	.	.	.	.	.	.	.	.
05JAN82	0	.	.	.	.	.	.	.	.
06JAN82	0	.	.	.	.	.	.	.	.
07JAN82	0	.	.	.	.	.	.	.	.
08JAN82	0	.	.	.	.	.	.	.	.
09JAN82	0	.	.	.	.	.	.	.	.
10JAN82	0	.	.	.	.	.	.	.	.
11JAN82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWG) MEASUREMENTS

-------- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=A-DRY FORK -----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12JAN82	0	.	.	.	.	.	.	.	.
13JAN82	0	.	.	.	.	.	.	.	.
14JAN82	0	.	.	.	.	.	.	.	.
15JAN82	0	.	.	.	.	.	.	.	.
16JAN82	0	.	.	.	.	.	.	.	.
17JAN82	0	.	.	.	.	.	.	.	.
18JAN82	0	.	.	.	.	.	.	.	.
19JAN82	0	.	.	.	.	.	.	.	.
20JAN82	0	.	.	.	.	.	.	.	.
21JAN82	0	.	.	.	.	.	.	.	.
22JAN82	0	.	.	.	.	.	.	.	.
23JAN82	0	.	.	.	.	.	.	.	.
24JAN82	0	.	.	.	.	.	.	.	.
25JAN82	0	.	.	.	.	.	.	.	.
26JAN82	0	.	.	.	.	.	.	.	.
27JAN82	0	.	.	.	.	.	.	.	.
28JAN82	0	.	.	.	.	.	.	.	.
29JAN82	0	.	.	.	.	.	.	.	.
30JAN82	0	.	.	.	.	.	.	.	.
31JAN82	0	.	.	.	.	.	.	.	.

- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=C-BOX ELDER GULCH - WES

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN82	0	.	.	.	.	.	.	.	.
02JAN82	0	.	.	.	.	.	.	.	.
03JAN82	0	.	.	.	.	.	.	.	.
04JAN82	0	.	.	.	.	.	.	.	.
05JAN82	0	.	.	.	.	.	.	.	.
06JAN82	0	.	.	.	.	.	.	.	.
07JAN82	0	.	.	.	.	.	.	.	.
08JAN82	0	.	.	.	.	.	.	.	.
09JAN82	0	.	.	.	.	.	.	.	.
10JAN82	0	.	.	.	.	.	.	.	.
11JAN82	0	.	.	.	.	.	.	.	.
12JAN82	0	.	.	.	.	.	.	.	.
13JAN82	0	.	.	.	.	.	.	.	.
14JAN82	0	.	.	.	.	.	.	.	.
15JAN82	0	.	.	.	.	.	.	.	.
16JAN82	0	.	.	.	.	.	.	.	.
17JAN82	0	.	.	.	.	.	.	.	.
18JAN82	0	.	.	.	.	.	.	.	.
19JAN82	0	.	.	.	.	.	.	.	.
20JAN82	0	.	.	.	.	.	.	.	.
21JAN82	0	.	.	.	.	.	.	.	.
22JAN82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23JAN82	0	.	.	.	.	.	.	.	.
24JAN82	0	.	.	.	.	.	.	.	.
25JAN82	0	.	.	.	.	.	.	.	.
26JAN82	0	.	.	.	.	.	.	.	.
27JAN82	0	.	.	.	.	.	.	.	.
28JAN82	0	.	.	.	.	.	.	.	.
29JAN82	0	.	.	.	.	.	.	.	.
30JAN82	0	.	.	.	.	.	.	.	.
31JAN82	0	.	.	.	.	.	.	.	.

---- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=E-RINKY DINK GULCH --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN82	0	.	.	.	.	.	.	.	.
02JAN82	0	.	.	.	.	.	.	.	.
03JAN82	0	.	.	.	.	.	.	.	.
04JAN82	0	.	.	.	.	.	.	.	.
05JAN82	0	.	.	.	.	.	.	.	.
06JAN82	0	.	.	.	.	.	.	.	.
07JAN82	0	.	.	.	.	.	.	.	.
08JAN82	0	.	.	.	.	.	.	.	.
09JAN82	0	.	.	.	.	.	.	.	.
10JAN82	0	.	.	.	.	.	.	.	.
11JAN82	0	.	.	.	.	.	.	.	.
12JAN82	0	.	.	.	.	.	.	.	.
13JAN82	0	.	.	.	.	.	.	.	.
14JAN82	0	.	.	.	.	.	.	.	.
15JAN82	0	.	.	.	.	.	.	.	.
16JAN82	0	.	.	.	.	.	.	.	.
17JAN82	0	.	.	.	.	.	.	.	.
18JAN82	0	.	.	.	.	.	.	.	.
19JAN82	0	.	.	.	.	.	.	.	.
20JAN82	0	.	.	.	.	.	.	.	.
21JAN82	0	.	.	.	.	.	.	.	.
22JAN82	0	.	.	.	.	.	.	.	.
23JAN82	0	.	.	.	.	.	.	.	.
24JAN82	0	.	.	.	.	.	.	.	.
25JAN82	0	.	.	.	.	.	.	.	.
26JAN82	0	.	.	.	.	.	.	.	.
27JAN82	0	.	.	.	.	.	.	.	.
28JAN82	0	.	.	.	.	.	.	.	.
29JAN82	0	.	.	.	.	.	.	.	.
30JAN82	0	.	.	.	.	.	.	.	.
31JAN82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=D-CORRAL GULCH - EAST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01JAN82	0.47	9.2	6.9	7.7	1582	1472	1544	.	.
02JAN82	0.46	8.9	6.5	7.3	1587	1527	1571	.	.
03JAN82	0.46	8.5	6.2	7.1	1622	1452	1548	.	.
04JAN82	0.45	9.0	6.7	7.7	1597	1537	1561	.	.
05JAN82	0.44	8.7	7.2	7.7	1603	1453	1535	.	.
06JAN82	0.44	8.5	6.0	6.9	1608	1438	1527	.	.
07JAN82	0.43	8.0	6.0	6.5	1613	1463	1566	.	.
08JAN82	0.39	8.9	6.0	7.1	1578	1458	1509	.	.
09JAN82	0.38	9.0	6.7	7.4	1564	1374	1454	.	.
10JAN82	0.38	9.5	7.0	7.7	1579	1379	1494	.	.
11JAN82	0.37	9.5	7.0	7.9	1574	1424	1496	.	.
12JAN82	0.37	9.0	6.7	7.6	1639	1399	1511	.	.
13JAN82	0.40	9.0	7.0	7.7	1595	1345	1487	.	.
14JAN82	0.39	9.5	6.9	7.5	1550	1400	1487	.	.
15JAN82	0.39	9.2	6.9	7.6	1480	1440	1443	.	.
16JAN82	0.40	9.9	6.0	7.9	1450	1440	1440	.	.
17JAN82	0.40	9.7	6.0	8.1	1450	1440	1440	.	.
18JAN82	0.37	9.0	7.5	8.1	1450	1440	1443	.	.
19JAN82	0.41	9.4	7.2	7.9	1450	1440	1441	.	.
20JAN82	0.41	9.2	7.0	7.8	1510	1450	1460	.	.
21JAN82	0.42	9.4	6.2	7.9	1450	1440	1445	.	.
22JAN82	0.46	9.0	6.7	7.5	1480	1440	1438	.	.
23JAN82	0.46	9.5	7.0	7.9	1480	1440	1443	.	.
24JAN82	0.51	10.5	7.7	8.6	1480	1440	1445	.	.
25JAN82	0.51	10.7	7.5	8.7	1480	1440	1445	.	.
26JAN82	0.55	10.2	7.9	8.6	1450	1440	1447	.	.
27JAN82	0.56	10.4	7.0	8.2	1480	1440	1443	.	.
28JAN82	0.60	10.5	7.5	8.4	1450	1440	1443	.	.
29JAN82	0.60	9.7	7.5	8.4	1450	1440	1446	.	.
30JAN82	0.61	10.2	7.5	8.2	1450	1440	1444	.	.
31JAN82	0.61	10.0	7.7	8.4	1450	1440	1435	.	.

--- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=F-LOWER YELLOW CREEK

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN82	1.8	0.3	.	0.1	3810	.	.	.	.
02JAN82	1.5	.	.	.	.	.	.	.	.
03JAN82	1.8	.	.	.	.	.	.	.	.
04JAN82	1.6	.	.	.	.	.	.	.	.
05JAN82	1.9	.	.	.	.	.	.	.	.
06JAN82	1.7	.	.	.	.	.	3700	.	.
07JAN82	1.2	.	.	.	.	.	.	.	.
08JAN82	1.4	.	.	.	.	.	.	.	.
09JAN82	1.5	.	.	.	.	.	.	.	.
10JAN82	1.5	.	.	.	.	.	3840	.	.
11JAN82	1.5	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1982 MONTH=JANUARY STATION LOCATION=F-LOWER YELLOW CREEK -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12JAN82	1.5	0.1	.	.	3750	3680	3727	.	.
13JAN82	1.5	0.1	.	.	3740	3550	3650	.	.
14JAN82	1.5	0.1	.	.	3870	3570	3697	.	.
15JAN82	1.7	0.1	.	.	3850	3070	3639	.	.
16JAN82	1.9	0.1	.	.	3620	3380	3531	.	.
17JAN82	2.0	0.2	.	0.1	3500	3210	3386	.	.
18JAN82	2.1	0.2	.	0.1	3520	3210	3360	.	.
19JAN82	2.6	0.3	.	.	3620	3280	3436	.	.
20JAN82	2.1	1.3	.	0.3	3580	3330	3438	.	.
21JAN82	2.1	1.7	.	0.4	3520	3270	3413	.	.
22JAN82	2.1	1.6	.	0.4	3550	3280	3397	.	.
23JAN82	2.1	0.1	.	.	3700	3270	3494	.	.
24JAN82	2.2	3.0	.	1.1	3440	3310	3378	.	.
25JAN82	2.1	2.6	0.2	1.1	3560	3250	3395	.	.
26JAN82	2.1	3.2	0.3	1.4	3470	3150	3326	.	.
27JAN82	2.1	3.6	0.8	1.8	3300	3020	3159	.	.
28JAN82	2.1	1.2	0.3	0.7	3400	3030	3206	.	.
29JAN82	2.0	3.0	0.2	1.1	3480	3290	3348	.	.
30JAN82	2.0	0.6	.	0.2	3700	3180	3486	.	.
31JAN82	2.2	2.1	.	0.4	3620	3250	3449	.	.

-- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB82	0.17	.	.	.	.	.	.	.	.
02FEB82	0.15	.	.	.	.	.	.	.	.
03FEB82	0.23	.	.	.	.	.	.	.	.
04FEB82	0.20	.	.	.	.	.	.	.	.
05FEB82	0.19	.	.	.	.	.	.	.	.
06FEB82	0.18	.	.	.	.	.	.	.	.
07FEB82	0.17	.	.	.	.	.	.	.	.
08FEB82	0.16	.	.	.	.	.	.	.	.
09FEB82	0.17	.	.	.	.	.	.	.	.
10FEB82	0.18	.	.	.	.	.	.	.	.
11FEB82	0.18	.	.	.	.	.	.	.	.
12FEB82	0.18	.	.	.	.	.	.	.	.
13FEB82	0.18	.	.	.	.	.	.	.	.
14FEB82	0.18	.	.	.	.	.	.	.	.
15FEB82	0.18	.	.	.	.	.	.	.	.
16FEB82	0.18	.	.	.	.	.	.	.	.
17FEB82	0.18	.	.	.	.	.	.	.	.
18FEB82	0.18	.	.	.	.	.	.	.	.
19FEB82	0.18	.	.	.	.	.	.	.	.
20FEB82	0.18	.	.	.	.	.	.	.	.
21FEB82	0.18	.	.	.	.	.	.	.	.
22FEB82	0.18	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23FEB82	0.18	.	.	.	.	.	.	.	.
24FEB82	0.09	.	.	.	.	.	.	.	.
25FEB82	0.13	.	.	.	.	.	.	.	.
26FEB82	0.09	.	.	.	.	.	.	.	.
27FEB82	0.24	.	.	.	.	.	.	.	.
28FEB82	0.14	.	.	.	.	.	.	.	.

------- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=A-DRY FORK -----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB82	0	.	.	.	.	.	.	.	.
02FEB82	0	.	.	.	.	.	.	.	.
03FEB82	0	.	.	.	.	.	.	.	.
04FEB82	0	.	.	.	.	.	.	.	.
05FEB82	0	.	.	.	.	.	.	.	.
06FEB82	0	.	.	.	.	.	.	.	.
07FEB82	0	.	.	.	.	.	.	.	.
08FEB82	0	.	.	.	.	.	.	.	.
09FEB82	0	.	.	.	.	.	.	.	.
10FEB82	0	.	.	.	.	.	.	.	.
11FEB82	0	.	.	.	.	.	.	.	.
12FEB82	0	.	.	.	.	.	.	.	.
13FEB82	0	.	.	.	.	.	.	.	.
14FEB82	0	.	.	.	.	.	.	.	.
15FEB82	0	.	.	.	.	.	.	.	.
16FEB82	0	.	.	.	.	.	.	.	.
17FEB82	0	.	.	.	.	.	.	.	.
18FEB82	0	.	.	.	.	.	.	.	.
19FEB82	0	.	.	.	.	.	.	.	.
20FEB82	0	.	.	.	.	.	.	.	.
21FEB82	0	.	.	.	.	.	.	.	.
22FEB82	0	.	.	.	.	.	.	.	.
23FEB82	0	.	.	.	.	.	.	.	.
24FEB82	0	.	.	.	.	.	.	.	.
25FEB82	0	.	.	.	.	.	.	.	.
26FEB82	0	.	.	.	.	.	.	.	.
27FEB82	0	.	.	.	.	.	.	.	.
28FEB82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB82	0.00	.	.	.	.	.	.	.	.
02FEB82	0.00	.	.	.	.	.	.	.	.
03FEB82	0.00	.	.	.	.	.	.	.	.
04FEB82	0.00	.	.	.	.	.	.	.	.
05FEB82	0.00	.	.	.	.	.	.	.	.
06FEB82	0.00	.	.	.	.	.	.	.	.
07FEB82	0.00	.	.	.	.	.	.	.	.
08FEB82	0.00	.	.	.	.	.	.	.	.
09FEB82	0.00	.	.	.	.	.	.	.	.
10FEB82	0.00	.	.	.	.	.	.	.	.
11FEB82	0.00	.	.	.	.	.	.	.	.
12FEB82	0.00	.	.	.	.	.	.	.	.
13FEB82	0.00	.	.	.	.	.	.	.	.
14FEB82	0.00	.	.	.	.	.	.	.	.
15FEB82	0.00	.	.	.	.	.	.	.	.
16FEB82	0.00	.	.	.	.	.	.	.	.
17FEB82	0.03	.	.	.	.	.	.	.	.
18FEB82	0.07	.	.	.	.	.	.	.	.
19FEB82	0.40	.	.	.	.	.	.	.	.
20FEB82	0.30	.	.	.	.	.	.	.	.
21FEB82	0.27	.	.	.	.	.	.	.	.
22FEB82	0.24	.	.	.	.	.	.	.	.
23FEB82	0.11	.	.	.	.	.	.	.	.
24FEB82	0.04	.	.	.	.	.	.	.	.
25FEB82	0.02	.	.	.	.	.	.	.	.
26FEB82	0.04	.	.	.	.	.	.	.	.
27FEB82	0.02	.	.	.	.	.	.	.	.
28FEB82	0.02	.	.	.	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=E-RINKY DINK GULCH ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB82	0.00	.	.	.	.	.	.	.	.
02FEB82	0.00	.	.	.	.	.	.	.	.
03FEB82	0.00	.	.	.	.	.	.	.	.
04FEB82	0.00	.	.	.	.	.	.	.	.
05FEB82	0.00	.	.	.	.	.	.	.	.
06FEB82	0.00	.	.	.	.	.	.	.	.
07FEB82	0.00	.	.	.	.	.	.	.	.
08FEB82	0.00	.	.	.	.	.	.	.	.
09FEB82	0.00	.	.	.	.	.	.	.	.
10FEB82	0.00	.	.	.	.	.	.	.	.
11FEB82	0.00	.	.	.	.	.	.	.	.
12FEB82	0.00	.	.	.	.	.	.	.	.
13FEB82	0.00	.	.	.	.	.	.	.	.
14FEB82	0.00	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=E-RINKY DINK GULCH -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
15FEB82	0.00	.	.	.	.	.	.	.	.
16FEB82	0.00	.	.	.	.	.	.	.	.
17FEB82	0.00	.	.	.	.	.	.	.	.
18FEB82	0.00	.	.	.	.	.	.	.	.
19FEB82	0.05	.	.	.	.	.	.	.	.
20FEB82	0.03	.	.	.	.	.	.	.	.
21FEB82	0.03	.	.	.	.	.	.	.	.
22FEB82	0.03	.	.	.	.	.	.	.	.
23FEB82	0.02	.	.	.	.	.	.	.	.
24FEB82	0.01	.	.	.	.	.	.	.	.
25FEB82	0.00	.	.	.	.	.	.	.	.
26FEB82	0.01	.	.	.	.	.	.	.	.
27FEB82	0.00	.	.	.	.	.	.	.	.
28FEB82	0.01	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=D-CORRAL GULCH - EAST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01FEB82	0.62	9.7	7.7	8.4	1450	1410	1443	.	.
02FEB82	0.62	9.7	7.2	8.1	1450	1410	1429	.	.
03FEB82	0.63	9.5	7.0	8.0	1440	1410	1409	.	.
04FEB82	0.63	8.7	6.9	7.3	1440	1390	1406	.	.
05FEB82	0.63	9.0	6.5	7.2	1440	1380	1410	.	.
06FEB82	0.68	9.5	6.5	7.4	1440	1400	1423	.	.
07FEB82	0.64	9.7	7.0	7.8	1440	1400	1416	.	.
08FEB82	0.69	9.7	7.0	8.0	1410	1390	1403	.	.
09FEB82	0.65	9.4	6.9	7.8	1450	1400	1424	.	.
10FEB82	0.70	10.0	7.2	8.1	1450	1380	1420	.	.
11FEB82	0.70	10.4	7.5	8.4	1440	1400	1408	.	.
12FEB82	0.70	10.5	7.2	8.3	1450	1380	1408	.	.
13FEB82	0.75	10.5	7.5	8.5	1450	1440	1442	.	.
14FEB82	0.76	10.9	8.4	9.2	1450	1410	1433	.	.
15FEB82	0.76	11.2	8.0	9.1	1450	1400	1427	.	.
16FEB82	0.82	10.5	8.2	8.8	1440	1390	1416	.	.
17FEB82	0.82	11.5	7.5	8.7	1410	1310	1379	.	.
18FEB82	0.88	10.9	7.0	8.2	1450	1240	1353	.	.
19FEB82	0.93	10.5	6.5	7.8	1440	1050	1303	.	.
20FEB82	1.50	10.7	3.0	6.9	1410	550	1152	.	.
21FEB82	2.00	11.2	1.7	6.6	1450	340	.	.	.
22FEB82	2.20	11.7	1.2	6.3	1410	315	1048	.	.
23FEB82	1.10	11.0	3.7	7.4	1410	410	1184	.	.
24FEB82	0.81	11.2	7.2	8.4	1450	1410	1444	.	.
25FEB82	0.82	12.2	7.5	8.8	1480	1400	1453	.	.
26FEB82	0.82	12.4	7.4	8.9	1480	1400	1439	.	.
27FEB82	0.83	12.2	7.9	9.1	1480	1410	1461	.	.
28FEB82	0.78	12.7	7.9	9.3	1490	1440	1464	.	.

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-- REPORT YEAR=1982 MONTH=FEBRUARY STATION LOCATION=F-LOWER YELLOW CREEK --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB82	2.1	3.8	.	1.4	3370	3280	3334	.	.
02FEB82	2.0	3.2	.	1.0	3450	3150	3326	.	.
03FEB82	1.8	1.3	0.1	0.4	3540	3220	3373	.	.
04FEB82	2.0	0.4	.	0.2	3750	3350	3581	.	.
05FEB82	2.8	0.3	0.2	0.2	3710	3560	3600	.	.
06FEB82	3.0	0.3	0.1	0.1	.	.	.	.	.
07FEB82	2.6	0.4	0.2	0.3	.	.	.	.	.
08FEB82	2.0	0.3	.	0.1	.	.	.	.	.
09FEB82	1.9	0.1	.	.	.	.	.	.	.
10FEB82	2.2	1.0	.	0.2	.	.	.	.	.
11FEB82	1.8	.	.	.	.	.	.	.	.
12FEB82	1.8	.	.	.	.	.	.	.	.
13FEB82	1.9	.	.	.	.	.	.	.	.
14FEB82	1.9	.	.	.	3500	3500	3500	.	.
15FEB82	1.9	.	.	.	.	.	.	.	.
16FEB82	2.3	.	.	.	.	.	.	.	.
17FEB82	14.0	.	.	.	.	.	.	.	.
18FEB82	18.0	.	.	.	.	.	.	.	.
19FEB82	19.0	.	.	.	.	.	.	.	.
20FEB82	30.0	.	.	.	.	.	.	.	.
21FEB82	52.0	2.7	.	0.4	725	620	680	.	.
22FEB82	54.0	.	.	.	590	450	512	.	.
23FEB82	46.0	4.2	0.1	1.6	1140	540	769	.	.
24FEB82	3.3	6.7	.	2.3	3250	1140	1645	.	.
25FEB82	1.8	8.6	0.2	3.2	.	.	.	.	.
26FEB82	1.8	7.8	0.3	3.7	.	.	.	.	.
27FEB82	2.0	8.1	0.4	4.0	.	.	.	.	.
28FEB82	1.9	10.2	0.1	4.2	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=B-CORRAL GULCH - WEST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR82	0.16	.	.	.	.	.	.	.	.
02MAR82	0.24	.	.	.	.	.	.	.	.
03MAR82	0.24	.	.	.	.	.	.	.	.
04MAR82	0.12	.	.	.	.	.	.	.	.
05MAR82	0.08	.	.	.	.	.	.	.	.
06MAR82	0.03	.	.	.	.	.	.	.	.
07MAR82	0.05	.	.	.	.	.	.	.	.
08MAR82	0.08	.	.	.	.	.	.	.	.
09MAR82	0.10	.	.	.	.	.	.	.	.
10MAR82	0.19	.	.	.	.	.	.	.	.
11MAR82	0.19	.	.	.	.	.	.	.	.
12MAR82	0.17	.	.	.	.	.	.	.	.
13MAR82	0.06	.	.	.	.	.	.	.	.
14MAR82	0.09	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
15MAR82	0.19	.	.	.	.	.	.	.	.
16MAR82	0.17	.	.	.	.	.	.	.	.
17MAR82	0.05	.	.	.	.	.	.	.	.
18MAR82	0.11	.	.	.	.	.	.	.	.
19MAR82	0.07	.	.	.	.	.	.	.	.
20MAR82	0.06	.	.	.	.	.	.	.	.
21MAR82	0.06	.	.	.	.	.	.	.	.
22MAR82	0.07	.	.	.	.	.	.	.	.
23MAR82	0.06	.	.	.	.	.	.	.	.
24MAR82	0.03	.	.	.	.	.	.	.	.
25MAR82	0.00	.	.	.	.	.	.	.	.
26MAR82	0.08	.	.	.	.	.	.	.	.
27MAR82	0.08	.	.	.	.	.	.	.	.
28MAR82	0.01	.	.	.	.	.	.	.	.
29MAR82	0.01	.	.	.	.	.	.	.	.
30MAR82	0.01	.	.	.	.	.	.	.	.
31MAR82	0.03	.	.	.	.	.	.	.	.

--------- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=A-DRY FORK ------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR82	0	.	.	.	.	.	.	.	.
02MAR82	0	.	.	.	.	.	.	.	.
03MAR82	0	.	.	.	.	.	.	.	.
04MAR82	0	.	.	.	.	.	.	.	.
05MAR82	0	.	.	.	.	.	.	.	.
06MAR82	0	.	.	.	.	.	.	.	.
07MAR82	0	.	.	.	.	.	.	.	.
08MAR82	0	.	.	.	.	.	.	.	.
09MAR82	0	.	.	.	.	.	.	.	.
10MAR82	0	.	.	.	.	.	.	.	.
11MAR82	0	.	.	.	.	.	.	.	.
12MAR82	0	.	.	.	.	.	.	.	.
13MAR82	0	.	.	.	.	.	.	.	.
14MAR82	0	.	.	.	.	.	.	.	.
15MAR82	0	.	.	.	.	.	.	.	.
16MAR82	0	.	.	.	.	.	.	.	.
17MAR82	0	.	.	.	.	.	.	.	.
18MAR82	0	.	.	.	.	.	.	.	.
19MAR82	0	.	.	.	.	.	.	.	.
20MAR82	0	.	.	.	.	.	.	.	.
21MAR82	0	.	.	.	.	.	.	.	.
22MAR82	0	.	.	.	.	.	.	.	.
23MAR82	0	.	.	.	.	.	.	.	.
24MAR82	0	.	.	.	.	.	.	.	.
25MAR82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--------- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=A-DRY FORK --------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
26MAR82	0	.	.	.	.	.	.	.	.
27MAR82	0	.	.	.	.	.	.	.	.
28MAR82	0	.	.	.	.	.	.	.	.
29MAR82	0	.	.	.	.	.	.	.	.
30MAR82	0	.	.	.	.	.	.	.	.
31MAR82	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=C-BOX ELDER GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR82	0.01	.	.	.	.	.	.	.	.
02MAR82	0.01	.	.	.	.	.	.	.	.
03MAR82	0.00	.	.	.	.	.	.	.	.
04MAR82	0.00	.	.	.	.	.	.	.	.
05MAR82	0.00	.	.	.	.	.	.	.	.
06MAR82	0.00	.	.	.	.	.	.	.	.
07MAR82	0.00	.	.	.	.	.	.	.	.
08MAR82	0.00	.	.	.	.	.	.	.	.
09MAR82	0.00	.	.	.	.	.	.	.	.
10MAR82	0.00	.	.	.	.	.	.	.	.
11MAR82	0.00	.	.	.	.	.	.	.	.
12MAR82	0.00	.	.	.	.	.	.	.	.
13MAR82	0.00	.	.	.	.	.	.	.	.
14MAR82	0.00	.	.	.	.	.	.	.	.
15MAR82	0.00	.	.	.	.	.	.	.	.
16MAR82	0.00	.	.	.	.	.	.	.	.
17MAR82	0.00	.	.	.	.	.	.	.	.
18MAR82	0.00	.	.	.	.	.	.	.	.
19MAR82	0.00	.	.	.	.	.	.	.	.
20MAR82	0.00	.	.	.	.	.	.	.	.
21MAR82	0.00	.	.	.	.	.	.	.	.
22MAR82	0.00	.	.	.	.	.	.	.	.
23MAR82	0.00	.	.	.	.	.	.	.	.
24MAR82	0.00	.	.	.	.	.	.	.	.
25MAR82	0.00	.	.	.	.	.	.	.	.
26MAR82	0.00	.	.	.	.	.	.	.	.
27MAR82	0.00	.	.	.	.	.	.	.	.
28MAR82	0.00	.	.	.	.	.	.	.	.
29MAR82	0.00	.	.	.	.	.	.	.	.
30MAR82	0.00	.	.	.	.	.	.	.	.
31MAR82	0.00	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

----- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=E-RINKY DINK GULCH --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR82	0	.	.	.	.	.	.	.	.
02MAR82	0	.	.	.	.	.	.	.	.
03MAR82	0	.	.	.	.	.	.	.	.
04MAR82	0	.	.	.	.	.	.	.	.
05MAR82	0	.	.	.	.	.	.	.	.
06MAR82	0	.	.	.	.	.	.	.	.
07MAR82	0	.	.	.	.	.	.	.	.
08MAR82	0	.	.	.	.	.	.	.	.
09MAR82	0	.	.	.	.	.	.	.	.
10MAR82	0	.	.	.	.	.	.	.	.
11MAR82	0	.	.	.	.	.	.	.	.
12MAR82	0	.	.	.	.	.	.	.	.
13MAR82	0	.	.	.	.	.	.	.	.
14MAR82	0	.	.	.	.	.	.	.	.
15MAR82	0	.	.	.	.	.	.	.	.
16MAR82	0	.	.	.	.	.	.	.	.
17MAR82	0	.	.	.	.	.	.	.	.
18MAR82	0	.	.	.	.	.	.	.	.
19MAR82	0	.	.	.	.	.	.	.	.
20MAR82	0	.	.	.	.	.	.	.	.
21MAR82	0	.	.	.	.	.	.	.	.
22MAR82	0	.	.	.	.	.	.	.	.
23MAR82	0	.	.	.	.	.	.	.	.
24MAR82	0	.	.	.	.	.	.	.	.
25MAR82	0	.	.	.	.	.	.	.	.
26MAR82	0	.	.	.	.	.	.	.	.
27MAR82	0	.	.	.	.	.	.	.	.
28MAR82	0	.	.	.	.	.	.	.	.
29MAR82	0	.	.	.	.	.	.	.	.
30MAR82	0	.	.	.	.	.	.	.	.
31MAR82	0	.	.	.	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01MAR82	0.79	10.7	7.9	9.0	1480	1450	1460	.	.
02MAR82	0.79	12.4	8.2	9.6	1480	1410	1446	.	.
03MAR82	0.80	11.0	7.2	8.7	1450	1440	1445	.	.
04MAR82	0.80	10.9	7.0	8.4	1450	1440	1444	.	.
05MAR82	0.76	11.2	7.2	8.5	1450	1440	1445	.	.
06MAR82	0.77	12.0	7.2	8.7	1450	1400	1444	.	.
07MAR82	0.82	11.9	7.7	8.9	1450	1410	1443	.	.
08MAR82	0.87	12.2	1.5	8.6	1590	1010	1441	.	.
09MAR82	0.74	12.4	5.9	9.1	1350	1150	1277	.	.
10MAR82	0.70	11.0	8.0	9.1	1380	1290	1329	.	.
11MAR82	0.70	12.5	8.0	9.7	1450	1340	1405	.	.

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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=D-CORRAL GULCH - EAST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12MAR82	0.66	12.7	7.0	9.0	1440	1400	1409	.	.
13MAR82	0.65	13.5	7.2	9.3	1410	1400	1407	.	.
14MAR82	0.61	12.4	7.5	9.1	1410	1400	1404	.	.
15MAR82	0.60	13.0	8.0	9.0	1410	1390	1401	.	.
16MAR82	0.56	12.7	6.5	8.9	1410	1350	1399	.	.
17MAR82	0.56	12.5	6.5	8.9	1400	1350	1390	.	.
18MAR82	0.55	13.2	7.0	9.0	1390	1350	1380	.	.
19MAR82	0.55	11.0	6.5	7.7	1390	1350	1366	.	.
20MAR82	0.55	11.2	6.9	8.2	1380	1340	1347	.	.
21MAR82	0.54	10.7	6.9	7.9	1350	1340	1342	.	.
22MAR82	0.54	12.9	6.9	8.5	1350	1340	1345	.	.
23MAR82	0.57	12.9	6.9	8.9	1350	1340	1346	.	.
24MAR82	0.57	13.4	7.2	9.1	1490	1310	1398	.	.
25MAR82	0.57	13.9	7.2	9.5	1450	1440	1443	.	.
26MAR82	0.60	10.7	8.4	9.2	1450	1400	1429	.	.
27MAR82	0.64	11.7	8.5	9.5	1410	1400	1404	.	.
28MAR82	0.64	13.5	7.9	9.6	1410	1380	1401	.	.
29MAR82	0.67	11.5	6.2	8.3	1410	1400	1403	.	.
30MAR82	0.67	10.2	7.2	8.1	1410	1390	1399	.	.
31MAR82	0.71	13.0	7.2	9.3	1410	1390	1397	.	.

---- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=F-LOWER YELLOW CREEK ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR82	1.9	7.8	0.8	4.2	.	.	.	.	.
02MAR82	2.4	7.3	0.3	4.6	.	.	.	.	.
03MAR82	2.2	7.5	0.2	4.3	.	.	.	.	.
04MAR82	1.8	8.4	1.6	4.2	3300	3300	3300	.	.
05MAR82	1.8	9.2	0.3	3.3	.	.	.	.	.
06MAR82	1.7	10.0	1.3	4.3	.	.	.	.	.
07MAR82	1.7	8.3	.	4.1	3500	3500	3500	.	.
08MAR82	1.7	11.7	0.4	4.0	.	.	.	.	.
09MAR82	1.8	12.2	0.2	5.8	3430	3070	3316	.	.
10MAR82	1.8	9.7	0.4	4.7	3500	3210	3377	.	.
11MAR82	1.9	8.9	1.5	3.3	3570	3040	3409	.	.
12MAR82	1.7	.	.	.	.	.	.	.	.
13MAR82	1.6	.	.	.	3560	3560	3560	.	.
14MAR82	1.5	.	.	.	.	.	.	.	.
15MAR82	1.6	.	.	.	.	.	.	.	.
16MAR82	1.6	.	.	.	.	.	.	.	.
17MAR82	1.6	.	.	.	3680	3680	3680	.	.
18MAR82	1.6	.	.	.	.	.	.	.	.
19MAR82	1.6	.	.	.	.	.	.	.	.
20MAR82	1.6	.	.	.	.	3700	.	.	.
21MAR82	1.5	.	.	.	.	.	.	.	.
22MAR82	1.4	14.0	0.5	8.2	3610	3160	3525	.	.

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---- REPORT YEAR=1982 MONTH=MARCH STATION LOCATION=F-LOWER YELLOW CREEK -

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23MAR82	1.3	14.9	.	4.9	3780	3350	3560	.	.
24MAR82	1.3	16.0	.	5.6	3780	3340	3620	.	.
25MAR82	1.3	18.3	.	6.8	3670	3450	3600	.	.
26MAR82	1.4	8.8	3.0	5.8	3620	3610	3620	.	.
27MAR82	1.5	13.4	4.6	7.7	3620	3590	3580	.	.
28MAR82	1.4	16.3	2.6	7.7	3670	3610	3630	.	.
29MAR82	1.5	5.5	.	3.0	3640	3310	3550	.	.
30MAR82	1.5	10.3	.	2.9	3720	3320	3520	.	.
31MAR82	1.4	15.6	.	5.6	3730	3580	3620	.	.

--- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01APR82	0.04	.	.	.	.	.	.	.	.
02APR82	0.05	.	.	.	.	.	.	.	.
03APR82	0.08	.	.	.	.	.	.	.	.
04APR82	0.05	.	.	.	.	.	.	.	.
05APR82	0.09	.	.	.	.	.	.	.	.
06APR82	0.08	.	.	.	.	.	.	.	.
07APR82	0.07	.	.	.	.	.	.	.	.
08APR82	0.06	.	.	.	.	.	.	.	.
09APR82	0.04	.	.	.	.	.	.	.	.
10APR82	0.05	.	.	.	.	.	.	.	.
11APR82	0.09	.	.	.	.	.	.	.	.
12APR82	0.02	.	.	.	.	.	.	.	.
13APR82	0.02	.	.	.	.	.	.	.	.
14APR82	0.02	.	.	.	.	.	.	.	.
15APR82	0.02	.	.	.	.	.	.	.	.
16APR82	0.02	.	.	.	.	.	.	.	.
17APR82	0.03	.	.	.	.	.	.	.	.
18APR82	0.00	.	.	.	.	.	.	.	.
19APR82	0.02	.	.	.	.	.	.	.	.
20APR82	0.02	.	.	.	.	.	.	.	.
21APR82	0.00	.	.	.	.	.	.	.	.
22APR82	0.00	.	.	.	.	.	.	.	.
23APR82	0.00	.	.	.	.	.	.	.	.
24APR82	0.00	.	.	.	.	.	.	.	.
25APR82	0.00	.	.	.	.	.	.	.	.
26APR82	0.00	.	.	.	.	.	.	.	.
27APR82	0.00	.	.	.	.	.	.	.	.
28APR82	0.00	.	.	.	.	.	.	.	.
29APR82	0.00	.	.	.	.	.	.	.	.
30APR82	0.00	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--------- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=A-DRY FORK --------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01APR82	0	.	.	.	.	.	.	.	.
02APR82	0	.	.	.	.	.	.	.	.
03APR82	0	.	.	.	.	.	.	.	.
04APR82	0	.	.	.	.	.	.	.	.
05APR82	0	.	.	.	.	.	.	.	.
06APR82	0	.	.	.	.	.	.	.	.
07APR82	0	.	.	.	.	.	.	.	.
08APR82	0	.	.	.	.	.	.	.	.
09APR82	0	.	.	.	.	.	.	.	.
10APR82	0	.	.	.	.	.	.	.	.
11APR82	0	.	.	.	.	.	.	.	.
12APR82	0	.	.	.	.	.	.	.	.
13APR82	0	.	.	.	.	.	.	.	.
14APR82	0	.	.	.	.	.	.	.	.
15APR82	0	.	.	.	.	.	.	.	.
16APR82	0	.	.	.	.	.	.	.	.
17APR82	0	.	.	.	.	.	.	.	.
18APR82	0	.	.	.	.	.	.	.	.
19APR82	0	.	.	.	.	.	.	.	.
20APR82	0	.	.	.	.	.	.	.	.
21APR82	0	.	.	.	.	.	.	.	.
22APR82	0	.	.	.	.	.	.	.	.
23APR82	0	.	.	.	.	.	.	.	.
24APR82	0	.	.	.	.	.	.	.	.
25APR82	0	.	.	.	.	.	.	.	.
26APR82	0	.	.	.	.	.	.	.	.
27APR82	0	.	.	.	.	.	.	.	.
28APR82	0	.	.	.	.	.	.	.	.
29APR82	0	.	.	.	.	.	.	.	.
30APR82	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=C-BOX ELDER GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01APR82	0.00	.	.	.	.	.	.	.	.
02APR82	0.00	.	.	.	.	.	.	.	.
03APR82	0.00	.	.	.	.	.	.	.	.
04APR82	0.00	.	.	.	.	.	.	.	.
05APR82	0.00	.	.	.	.	.	.	.	.
06APR82	0.01	.	.	.	.	.	.	.	.
07APR82	0.00	.	.	.	.	.	.	.	.
08APR82	0.02	.	.	.	.	.	.	.	.
09APR82	0.02	.	.	.	.	.	.	.	.
10APR82	0.03	.	.	.	.	.	.	.	.
11APR82	0.04	.	.	.	.	.	.	.	.
12APR82	0.05	.	.	.	.	.	.	.	.

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FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
13APR82	0.12	.	.	.	.	.	.	.	.
14APR82	0.16	.	.	.	.	.	.	.	.
15APR82	0.15	.	.	.	.	.	.	.	.
16APR82	0.12	.	.	.	.	.	.	.	.
17APR82	0.14	.	.	.	.	.	.	.	.
18APR82	0.25	.	.	.	.	.	.	.	.
19APR82	0.27	.	.	.	.	.	.	.	.
20APR82	0.23	4.6	0.1	1.6	800	710	772	.	.
21APR82	0.33	13.7	0.5	6.0	840	520	801	.	.
22APR82	0.39	.	.	.	.	.	.	.	.
23APR82	0.44	.	.	.	.	.	.	.	.
24APR82	0.40	.	.	.	.	.	.	.	.
25APR82	0.36	.	.	.	.	.	.	.	.
26APR82	0.48	.	.	.	.	.	.	.	.
27APR82	0.33	.	.	.	.	.	.	.	.
28APR82	0.30	.	.	.	.	.	.	.	.
29APR82	0.40	15.5	1.6	8.4	850	750	812	.	.
30APR82	0.46	20.6	.	8.3	860	610	788	.	.

----- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=E-RINKY DINK GULCH --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01APR82	0	.	.	.	.	.	.	.	.
02APR82	0	.	.	.	.	.	.	.	.
03APR82	0	.	.	.	.	.	.	.	.
04APR82	0	.	.	.	.	.	.	.	.
05APR82	0	.	.	.	.	.	.	.	.
06APR82	0	.	.	.	.	.	.	.	.
07APR82	0	.	.	.	.	.	.	.	.
08APR82	0	.	.	.	.	.	.	.	.
09APR82	0	.	.	.	.	.	.	.	.
10APR82	0	.	.	.	.	.	.	.	.
11APR82	0	.	.	.	.	.	.	.	.
12APR82	0	.	.	.	.	.	.	.	.
13APR82	0	.	.	.	.	.	.	.	.
14APR82	0	.	.	.	.	.	.	.	.
15APR82	0	.	.	.	.	.	.	.	.
16APR82	0	.	.	.	.	.	.	.	.
17APR82	0	.	.	.	.	.	.	.	.
18APR82	0	.	.	.	.	.	.	.	.
19APR82	0	.	.	.	.	.	.	.	.
20APR82	0	.	.	.	.	.	.	.	.
21APR82	0	.	.	.	.	.	.	.	.
22APR82	0	.	.	.	.	.	.	.	.
23APR82	0	.	.	.	.	.	.	.	.
24APR82	0	.	.	.	.	.	.	.	.

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----- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=E-RINKY DINK GULCH ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
25APR82	0	.	.	.	.	.	.	.	.
26APR82	0	.	.	.	.	.	.	.	.
27APR82	0	.	.	.	.	.	.	.	.
28APR82	0	.	.	.	.	.	.	.	.
29APR82	0	.	.	.	.	.	.	.	.
30APR82	0	.	.	.	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=D-CORRAL GULCH - EAST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01APR82	0.70	11.5	7.5	9.0	1400	1380	1391	.	.
02APR82	0.66	12.0	6.2	8.5	1390	1300	1364	.	.
03APR82	0.65	13.2	7.2	9.4	1410	1340	1383	.	.
04APR82	0.65	12.9	7.2	8.9	1410	1400	1406	.	.
05APR82	0.61	13.0	7.2	9.3	1410	1400	1407	.	.
06APR82	0.64	12.0	7.7	9.2	1410	1400	1405	.	.
07APR82	0.64	10.9	7.0	8.4	1400	1340	1366	.	.
08APR82	0.63	12.9	7.0	8.8	1410	1340	1357	.	.
09APR82	0.63	13.2	7.2	9.1	1440	1400	1409	.	.
10APR82	0.63	13.7	7.2	9.5	1440	1400	1417	.	.
11APR82	0.62	14.7	8.0	10.2	1450	1410	1444	.	.
12APR82	0.66	11.5	8.2	9.6	1450	1440	1446	.	.
13APR82	0.62	15.0	8.0	10.3	1450	1440	1446	.	.
14APR82	0.57	14.5	8.0	10.1	1490	1440	1462	.	.
15APR82	0.61	13.9	8.0	9.7	1480	1440	1450	.	.
16APR82	0.60	13.5	7.5	9.4	1450	1440	1443	.	.
17APR82	0.60	14.0	7.4	9.8	1450	1440	1445	.	.
18APR82	0.64	13.7	7.7	9.7	1450	1440	1446	.	.
19APR82	0.67	12.0	7.2	8.5	1450	1410	1439	.	.
20APR82	0.71	11.2	7.2	8.4	1440	1400	1421	.	.
21APR82	0.80	13.5	7.0	9.2	1450	1389	1420	.	.
22APR82	0.75	16.0	7.2	10.1	1480	1190	1333	.	.
23APR82	0.70	14.9	7.7	9.5	1240	1040	1120	.	.
24APR82	0.69	16.0	7.0	10.3	1150	1000	1089	.	.
25APR82	0.69	14.0	7.5	9.8	1280	1100	1179	.	.
26APR82	0.69	15.0	7.2	9.9	1290	1200	1231	.	.
27APR82	0.68	15.7	7.2	10.0	1410	1250	1332	.	.
28APR82	0.68	17.2	6.0	10.5	1500	1180	1387	.	.
29APR82	0.72	15.0	6.9	9.6	1450	1250	1338	.	.
30APR82	0.76	17.0	5.7	10.1	1450	1280	1368	.	.

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---- REPORT YEAR=1982 MONTH=APRIL STATION LOCATION=F-LOWER YELLOW CREEK -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01APR82	1.4	10.4	.	5.1	3600	3590	3595	.	.
02APR82	1.5	13.8	.	5.5	3590	3310	3400	.	.
03APR82	1.4	18.5	.	6.7	3660	3570	3630	.	.
04APR82	1.4	13.9	0.5	5.4	3630	3560	3600	.	.
05APR82	1.4	16.4	.	5.6	3760	3350	3590	.	.
06APR82	1.5	12.5	0.3	5.5	3600	3530	3570	.	.
07APR82	1.7	11.2	.	3.9	3590	3380	3420	.	.
08APR82	1.6	13.5	.	3.6	3980	3550	3720	.	.
09APR82	1.6	16.8	.	5.2	3720	3490	3600	.	.
10APR82	1.5	18.2	.	6.5	3670	3560	3580	.	.
11APR82	1.4	18.7	2.2	9.2	3670	3560	3545	.	.
12APR82	1.6	16.8	5.0	9.9	3650	3260	3550	.	.
13APR82	1.4	21.7	2.5	10.4	3740	3570	3630	.	.
14APR82	1.4	21.2	0.2	9.5	3740	3600	3670	.	.
15APR82	1.5	18.8	0.3	8.5	3720	3600	3650	.	.
16APR82	1.5	18.5	.	8.2	3740	3580	3650	.	.
17APR82	1.5	18.7	.	6.8	3820	3280	3580	.	.
18APR82	1.5	18.3	.	7.4	3750	3430	3590	.	.
19APR82	1.5	15.5	.	4.6	3830	3600	3570	.	.
20APR82	1.5	11.5	.	3.1	3870	3430	3650	.	.
21APR82	1.4	18.0	.	6.3	3910	3720	3759	.	.
22APR82	1.5	22.0	.	8.3	3920	3530	3766	.	.
23APR82	1.5	14.4	1.0	7.0	3730	3710	3720	.	.
24APR82	1.5	23.4	2.0	10.7	3810	3710	3750	.	.
25APR82	1.6	23.0	1.7	10.5	3810	3660	3725	.	.
26APR82	1.6	19.6	4.3	9.9	3900	3660	3720	.	.
27APR82	1.7	22.2	5.5	10.9	3700	3620	3665	.	.
28APR82	1.7	23.2	1.8	11.2	4340	3620	3830	.	.
29APR82	1.8	20.4	5.1	10.1	3750	3510	3610	.	.
30APR82	1.7	22.4	1.5	10.9	3650	3570	3600	.	.

---- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=B-CORRAL GULCH - WEST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01MAY82	0.00	.	.	.	.	.	.	.	.
02MAY82	0.00	.	.	.	.	.	.	.	.
03MAY82	0.00	.	.	.	.	.	.	.	.
04MAY82	0.00	.	.	.	.	.	.	.	.
05MAY82	0.00	.	.	.	.	.	.	.	.
06MAY82	0.00	.	.	.	.	.	.	.	.
07MAY82	0.00	.	.	.	.	.	.	.	.
08MAY82	0.00	.	.	.	.	.	.	.	.
09MAY82	0.00	.	.	.	.	.	.	.	.
10MAY82	0.00	.	.	.	.	.	.	.	.
11MAY82	0.00	.	.	.	.	.	.	.	.
12MAY82	0.04	7.1	.	3.4	1130	1100	1110	.	.

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---- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=B-CORRAL GULCH - WEST ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
13MAY82	0.02	9.1	0.6	4.7	1130	1080	1100	.	.
14MAY82	0.01	16.6	1.1	6.9	1100	1080	1100	.	.
15MAY82	0.01	20.1	.	7.6	1130	1080	1100	.	.
16MAY82	0.01	22.1	1.4	9.0	1110	1080	1100	.	.
17MAY82	0.01	22.6	1.0	9.8	1120	1030	1090	.	.
18MAY82	0.01	23.6	3.5	11.2	1110	1080	1100	.	.
19MAY82	0.04	23.0	4.0	9.6	1100	1000	1050	.	.
20MAY82	0.05	26.5	3.0	11.2	1090	1000	1035	.	.
21MAY82	0.02	29.1	1.0	12.1	1090	1000	1039	.	.
22MAY82	0.02	23.6	2.6	11.6	1030	990	1009	.	.
23MAY82	0.05	26.1	4.6	12.9	.	.	.	.	.
24MAY82	0.05	22.9	3.2	10.2	.	.	.	.	.
25MAY82	0.12	25.9	2.5	12.0	.	.	.	.	.
26MAY82	0.18	28.6	3.5	13.2	1110	920	1039	.	.
27MAY82	0.18	25.5	5.0	12.9	1030	880	980	.	.
28MAY82	0.26	24.4	4.9	11.4	.	.	.	.	.
29MAY82	0.33	23.6	3.0	11.4	.	.	.	.	.
30MAY82	0.36	18.1	4.4	9.2	.	.	.	.	.
31MAY82	0.35	25.6	2.1	12.0	.	.	.	.	.

---------- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=A-DRY FORK ---------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAY82	0	.	.	.	.	.	.	.	.
02MAY82	0	.	.	.	.	.	.	.	.
03MAY82	0	.	.	.	.	.	.	.	.
04MAY82	0	.	.	.	.	.	.	.	.
05MAY82	0	.	.	.	.	.	.	.	.
06MAY82	0	.	.	.	.	.	.	.	.
07MAY82	0	.	.	.	.	.	.	.	.
08MAY82	0	.	.	.	.	.	.	.	.
09MAY82	0	.	.	.	.	.	.	.	.
10MAY82	0	.	.	.	.	.	.	.	.
11MAY82	0	.	.	.	.	.	.	.	.
12MAY82	0	.	.	.	.	.	.	.	.
13MAY82	0	.	.	.	.	.	.	.	.
14MAY82	0	.	.	.	.	.	.	.	.
15MAY82	0	.	.	.	.	.	.	.	.
16MAY82	0	.	.	.	.	.	.	.	.
17MAY82	0	.	.	.	.	.	.	.	.
18MAY82	0	.	.	.	.	.	.	.	.
19MAY82	0	.	.	.	.	.	.	.	.
20MAY82	0	.	.	.	.	.	.	.	.
21MAY82	0	.	.	.	.	.	.	.	.
22MAY82	0	.	.	.	.	.	.	.	.
23MAY82	0	.	.	.	.	.	.	.	.

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---------- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=A-DRY FORK ------

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
24MAY82	0	.	.	.	.	.	.	.	.
25MAY82	0	.	.	.	.	.	.	.	.
26MAY82	0	.	.	.	.	.	.	.	.
27MAY82	0	.	.	.	.	.	.	.	.
28MAY82	0	.	.	.	.	.	.	.	.
29MAY82	0	.	.	.	.	.	.	.	.
30MAY82	0	.	.	.	.	.	.	.	.
31MAY82	0	.	.	.	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAY82	0.45	19.3	2.8	9.6	853	710	787	.	.
02MAY82	0.54	20.4	3.5	10.7	835	655	772	.	.
03MAY82	0.63	21.2	5.2	11.1	.	.	.	.	.
04MAY82	0.78	11.9	4.0	7.8	850	770	805	.	.
05MAY82	0.82	15.4	0.2	5.8	860	800	833	.	.
06MAY82	0.79	17.2	0.2	5.9	870	690	790	.	.
07MAY82	0.77	14.7	0.2	6.9	840	790	821	.	.
08MAY82	0.70	17.3	4.6	9.2	820	760	793	.	.
09MAY82	0.74	14.2	4.2	7.8	770	720	749	.	.
10MAY82	0.68	16.2	1.0	7.6	.	.	.	.	.
11MAY82	0.77	15.6	2.2	7.0	.	.	.	.	.
12MAY82	0.94	5.6	1.9	3.7	.	.	.	.	.
13MAY82	0.85	10.1	3.3	5.6	.	.	.	.	.
14MAY82	0.80	14.5	3.3	7.3	.	.	.	.	.
15MAY82	0.77	13.6	1.6	6.9	.	.	.	.	.
16MAY82	0.58	14.5	2.8	8.0	.	.	.	.	.
17MAY82	0.41	18.5	2.6	9.4	.	.	.	.	.
18MAY82	0.15	19.2	4.2	10.5	.	.	.	.	.
19MAY82	0.44	16.6	3.8	9.0	.	.	.	.	.
20MAY82	0.66	20.6	4.0	10.1	840	720	769	.	.
21MAY82	0.58	25.2	2.2	11.5	750	660	698	.	.
22MAY82	0.55	21.5	3.5	11.1	.	.	.	.	.
23MAY82	0.50	23.6	5.4	12.6	.	.	.	.	.
24MAY82	0.50	18.6	4.2	10.2	.	.	.	.	.
25MAY82	0.46	24.6	3.6	12.3	.	.	.	.	.
26MAY82	0.40	26.9	4.4	13.6	810	770	782	.	.
27MAY82	0.53	24.9	5.8	13.4	830	760	799	.	.
28MAY82	0.53	24.4	5.9	12.2	820	770	794	.	.
29MAY82	0.53	23.0	3.0	11.0	820	740	780	.	.
30MAY82	0.62	16.2	5.4	9.4	.	.	.	.	.
31MAY82	0.57	26.2	2.1	12.2	.	.	.	.	.

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------ REPORT YEAR=1982 MONTH=MAY STATION LOCATION=E-RINKY DINK GULCH -----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAY82	0	.	.	.	.	.	.	.	.
02MAY82	0	.	.	.	.	.	.	.	.
03MAY82	0	.	.	.	.	.	.	.	.
04MAY82	0	.	.	.	.	.	.	.	.
05MAY82	0	.	.	.	.	.	.	.	.
06MAY82	0	.	.	.	.	.	.	.	.
07MAY82	0	.	.	.	.	.	.	.	.
08MAY82	0	.	.	.	.	.	.	.	.
09MAY82	0	.	.	.	.	.	.	.	.
10MAY82	0	.	.	.	.	.	.	.	.
11MAY82	0	.	.	.	.	.	.	.	.
12MAY82	0	.	.	.	.	.	.	.	.
13MAY82	0	.	.	.	.	.	.	.	.
14MAY82	0	.	.	.	.	.	.	.	.
15MAY82	0	.	.	.	.	.	.	.	.
16MAY82	0	.	.	.	.	.	.	.	.
17MAY82	0	.	.	.	.	.	.	.	.
18MAY82	0	.	.	.	.	.	.	.	.
19MAY82	0	.	.	.	.	.	.	.	.
20MAY82	0	.	.	.	.	.	.	.	.
21MAY82	0	.	.	.	.	.	.	.	.
22MAY82	0	.	.	.	.	.	.	.	.
23MAY82	0	.	.	.	.	.	.	.	.
24MAY82	0	.	.	.	.	.	.	.	.
25MAY82	0	.	.	.	.	.	.	.	.
26MAY82	0	.	.	.	.	.	.	.	.
27MAY82	0	.	.	.	.	.	.	.	.
28MAY82	0	.	.	.	.	.	.	.	.
29MAY82	0	.	.	.	.	.	.	.	.
30MAY82	0	.	.	.	.	.	.	.	.
31MAY82	0	.	.	.	.	.	.	.	.

---- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=D-CORRAL GULCH - EAST ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAY82	0.75	15.7	7.5	10.6	1450	1300	1376.0	.	.
02MAY82	0.70	16.2	7.2	10.7	1450	1250	1347.0	.	.
03MAY82	0.80	17.0	9.2	10.4	1450	1200	1330.0	.	.
04MAY82	1.00	12.5	7.0	9.7	1340	1200	1241.0	.	.
05MAY82	1.10	15.2	4.8	8.8	1210	1000	1078.0	.	.
06MAY82	0.87	16.0	4.5	9.6	1110	900	1038.0	.	.
07MAY82	1.10	14.9	4.8	9.3	1010	810	915.0	.	.
08MAY82	1.00	16.1	7.5	10.5	910	800	869.0	.	.
09MAY82	1.10	15.0	6.0	9.8	880	840	856.0	.	.
10MAY82	1.20	14.5	5.0	9.4	1000	840	910.0	.	.
11MAY82	1.20	13.7	6.0	8.9	1210	910	1105.0	.	.

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---- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=D-CORRAL GULCH - EAST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	S
12MAY82	1.50	8.0	5.5	6.5	1150	1000	1100.0	.	
13MAY82	1.30	11.7	6.0	8.0	1270	1100	1186.0	.	
14MAY82	1.10	14.8	6.5	9.6	1350	1100	1248.0	.	
15MAY82	1.20	16.3	5.0	9.9	1310	1200	1246.0	.	
16MAY82	1.10	15.7	6.0	10.1	1320	1220	1263.0	.	
17MAY82	1.00	17.9	6.0	10.9	1350	1210	1274.0	.	
18MAY82	0.96	16.3	7.0	11.0	1390	1200	1287.0	.	
19MAY82	0.89	16.5	5.4	10.6	1310	1130	1242.0	.	
20MAY82	0.78	16.4	6.9	10.6	1320	1180	1246.8	.	
21MAY82	0.76	19.7	5.6	11.3	1390	1210	1274.0	.	
22MAY82	0.77	17.9	6.6	11.0	1330	1220	1276.0	.	
23MAY82	0.77	18.7	7.9	11.8	1360	1230	1283.0	.	
24MAY82	0.87	17.9	7.1	10.9	1350	1220	1261.0	.	
25MAY82	1.00	18.8	6.4	11.6	1340	1210	1263.0	.	
26MAY82	0.92	20.0	7.0	12.0	1450	1220	1302.0	.	
27MAY82	0.84	18.2	8.2	11.8	1450	1240	1321.0	.	
28MAY82	0.82	16.9	7.9	11.2	1430	1250	1315.0	.	
29MAY82	0.75	17.3	6.8	11.1	1380	1250	1304.0	.	
30MAY82	0.92	15.2	7.5	10.2	1370	1150	1249.0	.	
31MAY82	0.96	19.6	5.7	11.5	1320	1210	1250.0	.	

----- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=F-LOWER YELLOW CREEK --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01MAY82	1.9	20.6	4.7	12.0	4000	3940	3570	.	
02MAY82	1.9	20.3	5.6	12.4	4010	3950	3980	.	
03MAY82	1.9	18.2	9.0	12.3	3960	3680	3868	.	
04MAY82	2.0	17.9	6.3	11.5	3880	3420	3700	.	
05MAY82	1.9	20.4	2.7	15.8	3690	3430	3580	.	
06MAY82	1.9	21.5	.	9.2	3780	3560	3690	.	
07MAY82	2.0	21.6	1.9	12.2	3800	3660	3700	.	
08MAY82	2.0	20.0	6.2	11.8	3830	3690	3715	.	
09MAY82	2.0	19.1	6.0	11.7	3840	3650	3700	.	
10MAY82	2.0	19.3	4.8	10.7	3890	3720	3794	.	
11MAY82	2.2	19.6	5.7	8.7	3790	3470	3670	.	
12MAY82	2.7	8.6	4.2	6.3	3980	3720	3790	.	
13MAY82	2.6	16.5	5.7	8.1	3810	3670	3780	.	
14MAY82	2.7	22.8	6.7	12.6	3760	3680	3706	.	
15MAY82	2.3	22.1	4.3	12.1	3770	3400	3680	.	
16MAY82	2.3	23.9	5.1	12.2	3770	3190	3607	.	
17MAY82	2.3	24.1	5.3	14.0	3640	3020	3428	.	
18MAY82	2.3	23.1	6.8	14.0	3610	3550	3590	.	
19MAY82	2.4	25.6	6.0	14.5	3610	3550	3590	.	
20MAY82	2.2	25.6	6.0	14.6	3730	3440	3583	.	
21MAY82	1.9	27.4	5.0	15.4	3730	3430	3621	.	
22MAY82	1.8	28.4	5.4	15.1	.	.	.	.	

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----- REPORT YEAR=1982 MONTH=MAY STATION LOCATION=F-LOWER YELLOW CREEK ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23MAY82	1.8	27.8	8.4	16.2	3800	3600	3700	.	.
24MAY82	1.5	25.9	6.6	18.6	3800	3670	3737	.	.
25MAY82	1.5	26.2	4.8	14.6	3850	3660	3719	.	.
26MAY82	1.6	27.8	6.8	16.4	3780	3500	3650	.	.
27MAY82	1.5	25.5	7.6	14.9	3750	3590	3675	.	.
28MAY82	1.5	23.6	7.9	14.0	3700	3540	3610	.	.
29MAY82	1.5	24.9	5.1	14.4	3850	3720	3760	.	.
30MAY82	1.6	21.4	8.5	12.8	3790	3510	3690	.	.
31MAY82	1.6	27.9	5.1	14.7	3830	3640	3750	.	.

---- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=B-CORRAL GULCH - WEST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUN82	0.39	22.6	4.5	10.0	.	.	.	.	.
02JUN82	0.35	24.0	2.5	11.0	.	.	.	.	.
03JUN82	0.38	24.0	4.4	11.9	.	.	.	.	.
04JUN82	0.41	24.0	3.5	11.5	.	.	.	.	.
05JUN82	0.45	23.1	3.1	10.8	.	.	.	.	.
06JUN82	0.49	23.1	1.5	9.9	.	.	.	.	.
07JUN82	0.53	23.0	2.1	10.6	.	.	.	.	.
08JUN82	0.52	23.5	3.0	11.1	.	.	.	.	.
09JUN82	0.52	25.0	2.0	11.4	.	.	.	.	.
10JUN82	0.56	22.1	3.5	11.2	.	.	.	.	.
11JUN82	0.55	26.0	4.5	13.2	.	.	.	.	.
12JUN82	0.55	20.9	6.0	11.9	.	.	.	.	.
13JUN82	0.50	21.1	5.9	11.7	.	.	.	.	.
14JUN82	0.50	23.1	5.0	11.9	.	.	.	.	.
15JUN82	0.58	20.1	5.5	11.2	.	.	.	.	.
16JUN82	0.49	25.1	5.5	13.2	1130	1100	1110	.	.
17JUN82	0.44	23.6	6.5	13.8	1130	980	1087	.	.
18JUN82	0.48	20.6	6.5	12.0	1110	980	1070	.	.
19JUN82	0.43	25.5	4.9	12.9	.	.	.	.	.
20JUN82	0.39	23.6	5.0	12.2	.	.	.	.	.
21JUN82	0.38	24.0	6.4	12.9	.	.	.	.	.
22JUN82	0.34	23.1	7.0	12.6	.	.	.	.	.
23JUN82	0.46	22.0	6.6	11.5	.	.	.	.	.
24JUN82	0.45	26.6	6.4	13.5	.	.	.	.	.
25JUN82	0.46	24.5	5.4	11.7	1130	1010	1107	.	.
26JUN82	0.48	23.1	5.5	12.9	.	.	.	.	.
27JUN82	0.47	27.5	6.5	14.9	.	.	.	.	.
28JUN82	0.42	26.6	6.9	14.8	.	.	.	.	.
29JUN82	0.45	24.1	6.0	13.3	.	.	.	.	.
30JUN82	0.43	24.0	7.9	13.1	.	.	.	.	.

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--------- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=A-DRY FORK -------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUN82	0	.	.	.	.	.	.	.	.
02JUN82	0	.	.	.	.	.	.	.	.
03JUN82	0	.	.	.	.	.	.	.	.
04JUN82	0	.	.	.	.	.	.	.	.
05JUN82	0	.	.	.	.	.	.	.	.
06JUN82	0	.	.	.	.	.	.	.	.
07JUN82	0	.	.	.	.	.	.	.	.
08JUN82	0	.	.	.	.	.	.	.	.
09JUN82	0	.	.	.	.	.	.	.	.
10JUN82	0	.	.	.	.	.	.	.	.
11JUN82	0	.	.	.	.	.	.	.	.
12JUN82	0	.	.	.	.	.	.	.	.
13JUN82	0	.	.	.	.	.	.	.	.
14JUN82	0	.	.	.	.	.	.	.	.
15JUN82	0	.	.	.	.	.	.	.	.
16JUN82	0	.	.	.	.	.	.	.	.
17JUN82	0	.	.	.	.	.	.	.	.
18JUN82	0	.	.	.	.	.	.	.	.
19JUN82	0	.	.	.	.	.	.	.	.
20JUN82	0	.	.	.	.	.	.	.	.
21JUN82	0	.	.	.	.	.	.	.	.
22JUN82	0	.	.	.	.	.	.	.	.
23JUN82	0	.	.	.	.	.	.	.	.
24JUN82	0	.	.	.	.	.	.	.	.
25JUN82	0	.	.	.	.	.	.	.	.
26JUN82	0	.	.	.	.	.	.	.	.
27JUN82	0	.	.	.	.	.	.	.	.
28JUN82	0	.	.	.	.	.	.	.	.
29JUN82	0	.	.	.	.	.	.	.	.
30JUN82	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUN82	0.57	19.4	5.0	10.4	.	.	.	.	.
02JUN82	0.48	23.4	2.2	11.6	.	.	.	.	.
03JUN82	0.40	25.5	4.8	12.8	.	.	.	.	.
04JUN82	0.36	24.4	3.6	12.2	.	.	.	.	.
05JUN82	0.40	22.9	3.3	11.1	.	.	.	.	.
06JUN82	0.40	25.7	0.9	10.7	.	.	.	.	.
07JUN82	0.36	23.9	0.8	10.6	.	.	.	.	.
08JUN82	0.30	26.5	2.2	12.2	.	.	.	.	.
09JUN82	0.22	27.5	1.2	12.2	.	.	.	.	.
10JUN82	0.22	23.9	2.4	12.4	.	.	.	.	.
11JUN82	0.10	29.7	4.4	13.6	.	.	.	.	.
12JUN82	0.09	22.6	6.4	13.8	.	.	.	.	.

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-- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=C-BOX ELDER GULCH - WEST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
13JUN82	0.06	24.3	6.0	12.9	.	.	.	.	.
14JUN82	0.10	25.7	5.0	10.8	.	.	.	.	.
15JUN82	0.06	25.8	5.2	12.6	.	.	.	.	.
16JUN82	0.02	27.3	5.2	12.5	.	.	.	.	.
17JUN82	0.02	28.0	7.8	14.5	.	.	.	.	.
18JUN82	0.02	24.3	9.7	14.6	.	.	.	.	.
19JUN82	0.02	28.5	4.3	12.1	.	.	.	.	.
20JUN82	0.02	28.2	4.1	13.6	.	.	.	.	.
21JUN82	0.01	30.2	6.5	14.9	.	.	.	.	.
22JUN82	0.01	24.2	8.1	15.0	.	.	.	.	.
23JUN82	0.01	22.2	7.0	13.9	.	.	.	.	.
24JUN82	0.01	22.0	7.0	10.2	.	.	.	.	.
25JUN82	0.01	26.5	7.6	14.4	850	740	807	.	.
26JUN82	0.01	24.8	5.1	10.7	860	830	843	.	.
27JUN82	0.00	.	.	.	.	.	.	.	.
28JUN82	0.00	.	.	.	.	.	.	.	.
29JUN82	0.00	.	.	.	.	.	.	.	.
30JUN82	0.00	.	.	.	.	.	.	.	.

----- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=E-RINKY DINK GULCH -----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUN82	0	.	.	.	.	.	.	.	.
02JUN82	0	.	.	.	.	.	.	.	.
03JUN82	0	.	.	.	.	.	.	.	.
04JUN82	0	.	.	.	.	.	.	.	.
05JUN82	0	.	.	.	.	.	.	.	.
06JUN82	0	.	.	.	.	.	.	.	.
07JUN82	0	.	.	.	.	.	.	.	.
08JUN82	0	.	.	.	.	.	.	.	.
09JUN82	0	.	.	.	.	.	.	.	.
10JUN82	0	.	.	.	.	.	.	.	.
11JUN82	0	.	.	.	.	.	.	.	.
12JUN82	0	.	.	.	.	.	.	.	.
13JUN82	0	.	.	.	.	.	.	.	.
14JUN82	0	.	.	.	.	.	.	.	.
15JUN82	0	.	.	.	.	.	.	.	.
16JUN82	0	.	.	.	.	.	.	.	.
17JUN82	0	.	.	.	.	.	.	.	.
18JUN82	0	.	.	.	.	.	.	.	.
19JUN82	0	.	.	.	.	.	.	.	.
20JUN82	0	.	.	.	.	.	.	.	.
21JUN82	0	.	.	.	.	.	.	.	.
22JUN82	0	.	.	.	.	.	.	.	.
23JUN82	0	.	.	.	.	.	.	.	.
24JUN82	0	.	.	.	.	.	.	.	.

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----- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=E-RINKY DINK GULCH ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
25JUN82	0	.	.	.	.	.	.	.	.
26JUN82	0	.	.	.	.	.	.	.	.
27JUN82	0	.	.	.	.	.	.	.	.
28JUN82	0	.	.	.	.	.	.	.	.
29JUN82	0	.	.	.	.	.	.	.	.
30JUN82	0	.	.	.	.	.	.	.	.

---- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01JUN82	0.92	17.2	7.7	10.8	1260	1160	1224	.	.
02JUN82	0.89	18.2	6.3	11.2	1280	1100	1196	.	.
03JUN82	0.86	17.6	7.9	11.7	1340	1050	1239	.	.
04JUN82	0.86	17.4	7.0	11.2	1390	1150	1303	.	.
05JUN82	0.85	17.2	6.9	10.9	1430	1240	1330	.	.
06JUN82	0.88	17.4	5.5	10.4	1420	1250	1332	.	.
07JUN82	0.80	16.9	5.9	10.7	1450	1280	1346	.	.
08JUN82	0.71	17.8	6.5	11.1	1440	1290	1348	.	.
09JUN82	0.69	18.3	6.3	11.3	1420	1280	1350	.	.
10JUN82	0.67	17.4	6.8	11.2	1490	1300	1383	.	.
11JUN82	0.55	17.8	8.2	12.1	1500	1380	1432	.	.
12JUN82	0.48	16.2	8.8	11.7	1450	1380	1414	.	.
13JUN82	0.44	16.0	8.6	11.6	1430	1350	1389	.	.
14JUN82	0.40	16.4	8.4	11.4	1410	1320	1343	.	.
15JUN82	0.90	16.6	8.7	11.7	1410	1320	1337	.	.
16JUN82	0.89	16.0	8.0	12.1	1430	1330	1360	.	.
17JUN82	0.93	17.6	9.3	12.7	1440	1340	1361	.	.
18JUN82	0.97	16.2	9.4	12.0	1400	1330	1341	.	.
19JUN82	1.00	18.0	8.4	12.2	1350	1320	1332	.	.
20JUN82	1.00	18.6	8.0	12.3	1370	1320	1338	.	.
21JUN82	0.99	17.9	9.0	12.3	1430	1330	1351	.	.
22JUN82	1.10	17.0	9.5	12.1	1420	1330	1349	.	.
23JUN82	0.98	16.6	9.2	11.7	1440	1310	1341	.	.
24JUN82	0.88	18.5	8.5	12.5	1450	1340	1363	.	.
25JUN82	0.95	18.0	9.3	11.7	1390	1340	1353	.	.
26JUN82	1.00	18.2	8.2	12.3	1450	1330	1355	.	.
27JUN82	1.00	18.8	8.9	12.9	1400	1330	1361	.	.
28JUN82	0.97	17.8	9.1	12.6	1450	1350	1384	.	.
29JUN82	0.95	17.4	8.9	12.2	1440	1340	1372	.	.
30JUN82	1.00	17.8	10.1	12.5	1440	1340	1369	.	.

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---- REPORT YEAR=1982 MONTH=JUNE STATION LOCATION=F-LOWER YELLOW CREEK ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUN82	1.6	18.8	8.2	12.9	3910	3500	3820	.	.
02JUN82	1.5	26.1	5.5	14.7	.	.	.	.	.
03JUN82	1.5	27.4	9.2	16.9	.	.	.	.	.
04JUN82	1.4	26.5	5.9	15.0	4300	3920	4110	.	.
05JUN82	1.4	24.5	6.4	13.9	4220	2690	3044	.	.
06JUN82	1.4	25.2	4.5	13.4	2990	2580	2835	.	.
07JUN82	1.4	25.1	3.6	13.2	2750	2540	2661	.	.
08JUN82	1.4	24.5	5.4	14.1	2680	2400	2552	.	.
09JUN82	1.3	27.9	0.9	14.6	3870	3720	3800	.	.
10JUN82	1.3	25.9	4.8	14.3	3710	3390	3505	.	.
11JUN82	1.3	29.3	7.2	17.3	.	.	.	.	.
12JUN82	1.3	23.5	7.2	15.0	.	.	.	.	.
13JUN82	1.3	25.0	7.8	15.7	3820	3690	3750	.	.
14JUN82	1.3	27.7	7.6	14.6	3710	3540	3603	.	.
15JUN82	1.3	25.2	9.1	15.4	3660	3540	3592	.	.
16JUN82	1.3	29.8	8.2	18.1	3750	3540	3620	.	.
17JUN82	1.2	30.4	10.4	19.3	3780	3570	3645	.	.
18JUN82	1.2	25.2	11.7	17.2	3670	3580	3613	.	.
19JUN82	1.2	29.2	7.1	17.1	3770	3580	3641	.	.
20JUN82	1.2	30.7	8.3	18.5	3800	3590	3669	.	.
21JUN82	1.2	26.2	10.0	17.5	3720	3600	3646	.	.
22JUN82	1.2	27.1	12.2	17.9	3710	3590	3632	.	.
23JUN82	1.2	26.7	10.3	17.7	3710	3590	3642	.	.
24JUN82	1.1	30.5	9.8	19.1	3810	3590	3681	.	.
25JUN82	2.1	28.5	8.4	15.7	3890	810	3198	.	.
26JUN82	1.6	.	.	.	.	.	.	.	.
27JUN82	1.5	26.4	10.5	17.9	3840	3760	3800	.	.
28JUN82	1.4	29.2	10.9	19.8	3950	3690	3782	.	.
29JUN82	1.4	26.7	10.2	18.0	3910	3720	3790	.	.
30JUN82	1.4	26.3	13.5	18.2	3880	3650	3770	.	.

---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=B-CORRAL GULCH - WEST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUL82	0.43	24.0	6.6	13.0	1130	1100	1120	.	.
02JUL82	0.38	25.4	5.5	13.3	1130	1080	1114	.	.
03JUL82	0.43	25.6	5.6	13.8	1100	930	1023	.	.
04JUL82	0.48	24.6	5.5	13.4	1030	1000	1015	.	.
05JUL82	0.52	18.0	6.4	11.1	.	.	.	.	.
06JUL82	0.54	24.5	4.5	12.6	.	.	.	.	.
07JUL82	0.52	24.0	5.6	12.9	.	.	.	.	.
08JUL82	0.55	24.6	8.5	12.9	.	.	.	.	.
09JUL82	0.52	24.0	7.4	13.3	.	.	.	.	.
10JUL82	0.54	26.1	5.9	14.2	.	.	.	.	.
11JUL82	0.51	26.0	7.0	13.8	.	.	.	.	.
12JUL82	0.53	26.6	6.9	14.5	.	.	.	.	.

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---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
13JUL82	0.59	23.4	8.1	12.8	.	.	.	.	.
14JUL82	0.57	25.4	6.9	14.2	.	.	.	.	.
15JUL82	0.49	25.1	7.5	14.3	.	.	.	.	.
16JUL82	0.45	25.1	6.1	13.8	.	.	.	.	.
17JUL82	0.52	23.5	8.5	14.1	.	.	.	.	.
18JUL82	0.52	26.5	7.0	14.6	.	.	.	.	.
19JUL82	0.50	26.5	7.1	14.8	.	.	.	.	.
20JUL82	0.49	26.5	7.6	14.1	1130	1100	1110	.	.
21JUL82	0.46	25.0	8.0	14.9	1150	1020	1092	.	.
22JUL82	0.49	24.9	9.0	14.4	1150	1030	1110	.	.
23JUL82	0.48	27.6	10.0	16.5	1170	1040	1117	.	.
24JUL82	0.66	23.1	9.5	15.0	1330	950	1108	.	.
25JUL82	0.47	18.4	12.9	15.1	1090	990	1059	.	.
26JUL82	0.52	18.0	12.9	14.9	1160	1070	1093	.	.
27JUL82	0.49	16.1	13.0	14.5	1190	1080	1151	.	.
28JUL82	0.53	14.6	13.1	14.0	1210	1120	1173	.	.
29JUL82	0.54	24.0	11.1	15.6	1190	1110	1149	.	.
30JUL82	0.50	25.5	8.4	14.9	.	.	.	.	.
31JUL82	0.50	26.6	7.9	15.2	.	.	.	.	.

-------- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=A-DRY FORK -------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUL82	0.00	.	.	.	.	.	.	.	.
02JUL82	0.00	.	.	.	.	.	.	.	.
03JUL82	0.00	.	.	.	.	.	.	.	.
04JUL82	0.00	.	.	.	.	.	.	.	.
05JUL82	0.00	.	.	.	.	.	.	.	.
06JUL82	0.00	.	.	.	.	.	.	.	.
07JUL82	0.00	.	.	.	.	.	.	.	.
08JUL82	0.00	.	.	.	.	.	.	.	.
09JUL82	0.00	.	.	.	.	.	.	.	.
10JUL82	0.00	.	.	.	.	.	.	.	.
11JUL82	0.00	.	.	.	.	.	.	.	.
12JUL82	0.00	.	.	.	.	.	.	.	.
13JUL82	0.00	.	.	.	.	.	.	.	.
14JUL82	0.00	.	.	.	.	.	.	.	.
15JUL82	0.00	.	.	.	.	.	.	.	.
16JUL82	0.00	.	.	.	.	.	.	.	.
17JUL82	0.00	.	.	.	.	.	.	.	.
18JUL82	0.00	.	.	.	.	.	.	.	.
19JUL82	0.00	.	.	.	.	.	.	.	.
20JUL82	0.00	.	.	.	.	.	.	.	.
21JUL82	0.00	.	.	.	.	.	.	.	.
22JUL82	0.00	.	.	.	.	.	.	.	.
23JUL82	0.00	.	.	.	.	.	.	.	.

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--------- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=A-DRY FORK ---------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
24JUL82	0.11	21.2	12.5	17.0	660	500	580	.	.
25JUL82	0.00	.	.	.	.	.	.	.	.
26JUL82	0.01	19.8	18.9	19.4	.	.	.	.	.
27JUL82	0.00	.	.	.	.	.	.	.	.
28JUL82	0.00	.	.	.	.	.	.	.	.
29JUL82	0.00	.	.	.	.	.	.	.	.
30JUL82	0.00	.	.	.	.	.	.	.	.
31JUL82	0.00	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=C-BOX ELDER GULCH - WEST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUL82	0	.	.	.	.	.	.	.	.
02JUL82	0	.	.	.	.	.	.	.	.
03JUL82	0	.	.	.	.	.	.	.	.
04JUL82	0	.	.	.	.	.	.	.	.
05JUL82	0	.	.	.	.	.	.	.	.
06JUL82	0	.	.	.	.	.	.	.	.
07JUL82	0	.	.	.	.	.	.	.	.
08JUL82	0	.	.	.	.	.	.	.	.
09JUL82	0	.	.	.	.	.	.	.	.
10JUL82	0	.	.	.	.	.	.	.	.
11JUL82	0	.	.	.	.	.	.	.	.
12JUL82	0	.	.	.	.	.	.	.	.
13JUL82	0	.	.	.	.	.	.	.	.
14JUL82	0	.	.	.	.	.	.	.	.
15JUL82	0	.	.	.	.	.	.	.	.
16JUL82	0	.	.	.	.	.	.	.	.
17JUL82	0	.	.	.	.	.	.	.	.
18JUL82	0	.	.	.	.	.	.	.	.
19JUL82	0	.	.	.	.	.	.	.	.
20JUL82	0	.	.	.	.	.	.	.	.
21JUL82	0	.	.	.	.	.	.	.	.
22JUL82	0	.	.	.	.	.	.	.	.
23JUL82	0	.	.	.	.	.	.	.	.
24JUL82	0	.	.	.	.	.	.	.	.
25JUL82	0	.	.	.	.	.	.	.	.
26JUL82	0	.	.	.	.	.	.	.	.
27JUL82	0	.	.	.	.	.	.	.	.
28JUL82	0	.	.	.	.	.	.	.	.
29JUL82	0	.	.	.	.	.	.	.	.
30JUL82	0	.	.	.	.	.	.	.	.
31JUL82	0	.	.	.	.	.	.	.	.

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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
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----- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=E-RINKY DINK GULCH ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUL82	0	.	.	.	.	.	.	.	.
02JUL82	0	.	.	.	.	.	.	.	.
03JUL82	0	.	.	.	.	.	.	.	.
04JUL82	0	.	.	.	.	.	.	.	.
05JUL82	0	.	.	.	.	.	.	.	.
06JUL82	0	.	.	.	.	.	.	.	.
07JUL82	0	.	.	.	.	.	.	.	.
08JUL82	0	.	.	.	.	.	.	.	.
09JUL82	0	.	.	.	.	.	.	.	.
10JUL82	0	.	.	.	.	.	.	.	.
11JUL82	0	.	.	.	.	.	.	.	.
12JUL82	0	.	.	.	.	.	.	.	.
13JUL82	0	.	.	.	.	.	.	.	.
14JUL82	0	.	.	.	.	.	.	.	.
15JUL82	0	.	.	.	.	.	.	.	.
16JUL82	0	.	.	.	.	.	.	.	.
17JUL82	0	.	.	.	.	.	.	.	.
18JUL82	0	.	.	.	.	.	.	.	.
19JUL82	0	.	.	.	.	.	.	.	.
20JUL82	0	.	.	.	.	.	.	.	.
21JUL82	0	.	.	.	.	.	.	.	.
22JUL82	0	.	.	.	.	.	.	.	.
23JUL82	0	.	.	.	.	.	.	.	.
24JUL82	0	.	.	.	.	.	.	.	.
25JUL82	0	.	.	.	.	.	.	.	.
26JUL82	0	.	.	.	.	.	.	.	.
27JUL82	0	.	.	.	.	.	.	.	.
28JUL82	0	.	.	.	.	.	.	.	.
29JUL82	0	.	.	.	.	.	.	.	.
30JUL82	0	.	.	.	.	.	.	.	.
31JUL82	0	.	.	.	.	.	.	.	.

---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01JUL82	0.99	16.2	9.7	12.3	1450	1340	1368	.	.
02JUL82	1.00	17.2	8.5	12.1	1440	1330	1367	.	.
03JUL82	0.93	17.0	8.2	12.1	1400	1340	1364	.	.
04JUL82	0.92	17.2	8.5	12.1	1410	1330	1361	.	.
05JUL82	0.92	14.6	9.3	11.3	1350	1310	1333	.	.
06JUL82	0.96	17.4	8.0	11.5	1400	1300	1319	.	.
07JUL82	0.98	.	.	.	.	.	.	.	.
08JUL82	0.99	.	.	.	.	.	.	.	.
09JUL82	1.00	.	.	.	.	.	.	.	.
10JUL82	1.00	.	.	.	.	.	.	.	.
11JUL82	1.00	.	.	.	.	.	.	.	.

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---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=D-CORRAL GULCH - EAST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12JUL82	1.00	.	.	.	.	.	.	.	.
13JUL82	1.00	.	.	.	.	.	.	.	.
14JUL82	1.00	.	.	.	.	.	.	.	.
15JUL82	1.00	.	.	.	.	.	.	.	.
16JUL82	0.97	.	.	.	.	.	.	.	.
17JUL82	0.99	.	.	.	.	.	.	.	.
18JUL82	0.98	.	.	.	.	.	.	.	.
19JUL82	0.96	.	.	.	.	.	.	.	.
20JUL82	0.82	18.0	10.7	14.0	1430	1350	1377	.	.
21JUL82	0.75	17.6	10.0	12.9	1410	1350	1371	.	.
22JUL82	0.81	17.0	10.7	12.9	1440	1350	1370	.	.
23JUL82	0.80	17.8	11.1	13.5	1420	1350	1373	.	.
24JUL82	1.00	18.2	10.9	13.5	1440	1340	1359	.	.
25JUL82	0.88	.	.	.	.	.	.	.	.
26JUL82	0.87	.	.	.	.	.	.	.	.
27JUL82	0.82	.	.	.	.	.	.	.	.
28JUL82	0.81	.	.	.	.	.	.	.	.
29JUL82	0.89	.	.	.	.	.	.	.	.
30JUL82	0.86	17.6	10.3	13.1	1450	1360	1389	.	.
31JUL82	0.79	18.0	9.9	13.0	1410	1370	1389	.	.

---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=F-LOWER YELLOW CREEK ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JUL82	1.4	25.8	12.6	18.3	3770	3570	3656	.	.
02JUL82	1.3	29.1	8.4	17.8	3780	3590	3672	.	.
03JUL82	1.3	29.2	8.4	18.3	3750	3580	3650	.	.
04JUL82	1.3	27.9	9.3	18.0	3820	3540	3620	.	.
05JUL82	1.3	22.3	13.4	17.1	3810	3740	3777	.	.
06JUL82	1.3	27.4	8.1	16.8	3940	3730	3824	.	.
07JUL82	1.2	18.0	8.9	12.0	3830	3810	3820	.	.
08JUL82	1.2	28.9	13.2	18.9	3870	3740	3793	.	.
09JUL82	1.2	27.9	13.1	19.5	3870	3730	3781	.	.
10JUL82	1.2	30.3	9.7	19.6	3830	3700	3744	.	.
11JUL82	1.2	29.4	12.2	19.4	3780	3660	3711	.	.
12JUL82	1.2	31.1	11.1	20.4	3860	3700	3760	.	.
13JUL82	1.2	27.1	13.3	18.7	3770	3680	3707	.	.
14JUL82	1.2	30.3	11.9	20.7	3840	3620	3708	.	.
15JUL82	1.2	28.4	12.1	19.6	3680	3560	3611	.	.
16JUL82	1.2	29.1	10.5	19.4	3630	3500	3557	.	.
17JUL82	1.2	26.3	14.6	20.0	3550	3460	3501	.	.
18JUL82	1.2	28.4	12.3	20.4	3580	3450	3503	.	.
19JUL82	1.2	30.6	12.3	21.0	3570	3410	3476	.	.
20JUL82	1.1	30.0	13.1	21.1	3540	3380	3448	.	.
21JUL82	1.0	32.5	13.2	22.2	3570	3400	3468	.	.
22JUL82	1.1	30.0	16.0	22.4	3720	3400	3511	.	.

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---- REPORT YEAR=1982 MONTH=JULY STATION LOCATION=F-LOWER YELLOW CREEK --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
23JUL82	1.1	31.2	15.7	22.6	3640	3430	3491	.	.
24JUL82	1.3	28.9	16.3	21.1	3980	2340	3278	.	.
25JUL82	1.2	30.4	14.7	21.4	3420	2320	3341	.	.
26JUL82	1.2	32.1	16.0	22.1	3520	3370	3421	.	.
27JUL82	1.2	30.7	17.2	22.8	3490	3380	3418	.	.
28JUL82	1.2	24.2	16.9	20.1	3410	3310	3365	.	.
29JUL82	1.4	28.6	16.7	21.3	3490	2580	3240	.	.
30JUL82	1.1	31.6	13.6	21.8	.	.	.	.	.
31JUL82	1.0	32.3	13.2	22.0	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=8-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01AUG82	0.50	25.6	7.5	14.8	.	.	.	.	.
02AUG82	0.50	23.6	10.4	14.4	.	.	.	.	.
03AUG82	0.58	20.6	11.1	15.3	1130	1100	.	.	.
04AUG82	0.50	21.9	8.5	14.1	1180	1110	1118	.	.
05AUG82	0.50	18.9	9.5	13.8	1130	1100	1110	.	.
06AUG82	0.50	21.6	9.5	14.8	1130	1100	1111	.	.
07AUG82	0.50	22.0	10.5	15.0	1130	1100	1110	.	.
08AUG82	0.64	19.5	10.9	13.9	1130	990	1098	.	.
09AUG82	0.64	23.5	9.5	14.9	1130	1100	1113	.	.
10AUG82	0.55	25.0	9.9	13.8	1130	1100	1115	.	.
11AUG82	0.55	25.0	9.6	14.1	1130	1100	1114	.	.
12AUG82	0.47	23.9	9.5	14.0	1130	1100	1118	.	.
13AUG82	0.43	17.6	9.6	12.0	1120	1100	1112	.	.
14AUG82	0.39	22.1	8.0	14.0	1130	1090	1105	.	.
15AUG82	0.35	24.4	8.0	14.2	1130	1090	1110	.	.
16AUG82	0.39	21.9	9.0	13.5	1120	1080	1104	.	.
17AUG82	0.43	24.9	8.5	15.0	1130	1080	1099	.	.
18AUG82	0.39	26.9	9.6	16.0	1110	1080	1095	.	.
19AUG82	0.36	23.5	8.5	14.8	1110	1080	1093	.	.
20AUG82	0.36	23.5	9.0	14.1	1130	1080	1102	.	.
21AUG82	0.32	24.5	10.0	14.5	1130	1080	1114	.	.
22AUG82	0.36	22.1	9.5	13.3	1130	1090	1116	.	.
23AUG82	0.36	27.5	8.5	14.7	1130	1090	1118	.	.
24AUG82	0.33	26.5	8.6	14.9	1130	1100	1119	.	.
25AUG82	0.33	20.0	8.9	13.1	1130	1080	1111	.	.
26AUG82	0.33	23.6	7.0	13.6	1130	1080	1110	.	.
27AUG82	0.37	23.5	7.5	12.4	1120	1080	1102	.	.
28AUG82	0.37	21.6	7.6	13.2	1130	1080	1094	.	.
29AUG82	0.37	24.0	8.1	12.6	1120	1080	1098	.	.
30AUG82	0.37	24.1	8.1	13.7	1120	1080	1099	.	.
31AUG82	0.34	23.5	7.5	13.3	.	.	.	.	.

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-------- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=A-DRY FORK --------

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01AUG82	0.00	.	.	.	.	.	.	.	.
02AUG82	0.75	14.8	13	13.9	1020	.	.	.	.
03AUG82	0.00	.	.	.	.	.	.	.	.
04AUG82	0.00	.	.	.	.	.	.	.	.
05AUG82	0.00	.	.	.	.	.	.	.	.
06AUG82	0.00	.	.	.	.	.	.	.	.
07AUG82	0.00	.	.	.	.	.	.	.	.
08AUG82	0.00	.	.	.	.	.	.	.	.
09AUG82	0.00	.	.	.	.	.	.	.	.
10AUG82	0.00	.	.	.	.	.	.	.	.
11AUG82	0.00	.	.	.	.	.	.	.	.
12AUG82	0.00	.	.	.	.	.	.	.	.
13AUG82	0.00	.	.	.	.	.	.	.	.
14AUG82	0.00	.	.	.	.	.	.	.	.
15AUG82	0.00	.	.	.	.	.	.	.	.
16AUG82	0.00	.	.	.	.	.	.	.	.
17AUG82	0.00	.	.	.	.	.	.	.	.
18AUG82	0.00	.	.	.	.	.	.	.	.
19AUG82	0.00	.	.	.	.	.	.	.	.
20AUG82	0.00	.	.	.	.	.	.	.	.
21AUG82	0.00	.	.	.	.	.	.	.	.
22AUG82	0.00	.	.	.	.	.	.	.	.
23AUG82	0.00	.	.	.	.	.	.	.	.
24AUG82	0.00	.	.	.	.	.	.	.	.
25AUG82	0.00	.	.	.	.	.	.	.	.
26AUG82	0.00	.	.	.	.	.	.	.	.
27AUG82	0.01	.	.	.	.	.	.	.	.
28AUG82	0.00	.	.	.	.	.	.	.	.
29AUG82	0.00	.	.	.	.	.	.	.	.
30AUG82	0.00	.	.	.	.	.	.	.	.
31AUG82	0.00	.	.	.	.	.	.	.	.

- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=C-BOX ELDER GULCH - WEST -

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01AUG82	0	.	.	.	.	.	.	.	.
02AUG82	0	.	.	.	.	.	.	.	.
03AUG82	0	.	.	.	.	.	.	.	.
04AUG82	0	.	.	.	.	.	.	.	.
05AUG82	0	.	.	.	.	.	.	.	.
06AUG82	0	.	.	.	.	.	.	.	.
07AUG82	0	.	.	.	.	.	.	.	.
08AUG82	0	.	.	.	.	.	.	.	.
09AUG82	0	.	.	.	.	.	.	.	.
10AUG82	0	.	.	.	.	.	.	.	.
11AUG82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12AUG82	0	.	.	.	.	.	.	.	.
13AUG82	0	.	.	.	.	.	.	.	.
14AUG82	0	.	.	.	.	.	.	.	.
15AUG82	0	.	.	.	.	.	.	.	.
16AUG82	0	.	.	.	.	.	.	.	.
17AUG82	0	.	.	.	.	.	.	.	.
18AUG82	0	.	.	.	.	.	.	.	.
19AUG82	0	.	.	.	.	.	.	.	.
20AUG82	0	.	.	.	.	.	.	.	.
21AUG82	0	.	.	.	.	.	.	.	.
22AUG82	0	.	.	.	.	.	.	.	.
23AUG82	0	.	.	.	.	.	.	.	.
24AUG82	0	.	.	.	.	.	.	.	.
25AUG82	0	.	.	.	.	.	.	.	.
26AUG82	0	.	.	.	.	.	.	.	.
27AUG82	0	.	.	.	.	.	.	.	.
28AUG82	0	.	.	.	.	.	.	.	.
29AUG82	0	.	.	.	.	.	.	.	.
30AUG82	0	.	.	.	.	.	.	.	.
31AUG82	0	.	.	.	.	.	.	.	.

---- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=E-RINKY DINK GULCH --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01AUG82	0	.	.	.	.	.	.	.	.
02AUG82	0	.	.	.	.	.	.	.	.
03AUG82	0	.	.	.	.	.	.	.	.
04AUG82	0	.	.	.	.	.	.	.	.
05AUG82	0	.	.	.	.	.	.	.	.
06AUG82	0	.	.	.	.	.	.	.	.
07AUG82	0	.	.	.	.	.	.	.	.
08AUG82	0	.	.	.	.	.	.	.	.
09AUG82	0	.	.	.	.	.	.	.	.
10AUG82	0	.	.	.	.	.	.	.	.
11AUG82	0	.	.	.	.	.	.	.	.
12AUG82	0	.	.	.	.	.	.	.	.
13AUG82	0	.	.	.	.	.	.	.	.
14AUG82	0	.	.	.	.	.	.	.	.
15AUG82	0	.	.	.	.	.	.	.	.
16AUG82	0	.	.	.	.	.	.	.	.
17AUG82	0	.	.	.	.	.	.	.	.
18AUG82	0	.	.	.	.	.	.	.	.
19AUG82	0	.	.	.	.	.	.	.	.
20AUG82	0	.	.	.	.	.	.	.	.
21AUG82	0	.	.	.	.	.	.	.	.
22AUG82	0	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

---- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=E-RINKY DINK GULCH ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23AUG82	0	.	.	.	.	.	.	.	.
24AUG82	0	.	.	.	.	.	.	.	.
25AUG82	0	.	.	.	.	.	.	.	.
26AUG82	0	.	.	.	.	.	.	.	.
27AUG82	0	.	.	.	.	.	.	.	.
28AUG82	0	.	.	.	.	.	.	.	.
29AUG82	0	.	.	.	.	.	.	.	.
30AUG82	0	.	.	.	.	.	.	.	.
31AUG82	0	.	.	.	.	.	.	.	.

--- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=D-CORRAL GULCH - EAST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01AUG82	0.76	16.2	9.5	11.9	1400	1340	1353	.	.
02AUG82	1.60	16.2	9.2	11.6	1350	1300	1315	.	.
03AUG82	0.79	16.0	9.2	11.6	1410	1340	1371	.	.
04AUG82	0.82	15.5	9.9	11.6	1420	1320	1360	.	.
05AUG82	0.75	16.2	10.0	11.8	1400	1330	1371	.	.
06AUG82	0.73	16.2	9.0	11.5	1400	1310	1360	.	.
07AUG82	0.66	14.9	9.7	11.2	1420	1340	1384	.	.
08AUG82	0.76	15.2	9.7	11.5	1420	1150	1362	.	.
09AUG82	0.76	15.7	9.5	11.3	1400	1150	1338	.	.
10AUG82	0.67	15.5	10.0	11.7	1430	1350	1380	.	.
11AUG82	0.69	11.9	10.0	10.8	1430	1370	1392	.	.
12AUG82	0.63	16.0	6.2	10.4	1420	1370	1394	.	.
13AUG82	0.72	11.5	8.5	9.4	1420	1340	1368	.	.
14AUG82	0.68	11.5	8.0	9.5	1420	1370	1392	.	.
15AUG82	0.69	14.6	8.5	10.6	1420	1370	1393	.	.
16AUG82	0.71	15.5	8.5	11.0	1420	1370	1386	.	.
17AUG82	0.68	15.0	9.6	11.3	1410	1370	1392	.	.
18AUG82	0.67	15.7	8.5	11.0	1420	1380	1397	.	.
19AUG82	0.69	15.5	9.5	11.1	1410	1370	1391	.	.
20AUG82	0.68	15.4	9.0	10.9	1420	1380	1395	.	.
21AUG82	0.67	16.2	9.0	11.4	1418	1388	1407	.	.
22AUG82	0.70	15.0	9.0	11.2	1405	1365	1391	.	.
23AUG82	0.69	15.4	9.5	11.4	1443	1373	1410	.	.
24AUG82	0.67	15.0	9.0	11.1	1460	1400	1420	.	.
25AUG82	0.68	13.2	10.0	10.9	1438	1408	1422	.	.
26AUG82	0.66	15.2	10.1	11.6	1455	1345	1427	.	.
27AUG82	0.67	13.4	8.5	10.3	1443	1403	1425	.	.
28AUG82	0.70	13.7	7.0	9.5	1470	1410	1440	.	.
29AUG82	0.70	11.2	6.5	9.2	1458	1418	1449	.	.
30AUG82	0.66	13.8	9.0	10.3	1445	1390	1421	.	.
31AUG82	0.85	15.5	9.5	12.0	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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--- REPORT YEAR=1982 MONTH=AUGUST STATION LOCATION=F-LOWER YELLOW CREEK -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01AUG82	0.94	29.3	13.0	20.9	.	.	.	.	.
02AUG82	0.97	30.4	17.1	21.3	3490	2620	3169	.	.
03AUG82	1.10	27.8	15.2	20.5	3500	3330	3407	.	.
04AUG82	1.10	29.2	12.8	20.8	3520	3390	3439	.	.
05AUG82	1.00	18.3	13.3	15.4	3400	2810	3327	.	.
06AUG82	1.00	32.2	12.8	21.6	3500	3350	3411	.	.
07AUG82	0.99	31.5	14.5	21.5	3480	3330	3386	.	.
08AUG82	1.50	25.8	14.5	19.4	3380	1970	3186	.	.
09AUG82	1.60	30.9	13.8	21.0	3430	1870	3094	.	.
10AUG82	1.30	29.2	14.1	20.3	3390	3290	3342	.	.
11AUG82	1.30	27.1	15.4	19.4	3360	3050	3280	.	.
12AUG82	1.20	28.4	14.8	20.0	3320	3180	3252	.	.
13AUG82	1.60	22.7	15.4	17.8	3190	1920	2880	.	.
14AUG82	1.50	29.7	13.2	20.2	3330	2770	2962	.	.
15AUG82	1.40	28.6	14.0	21.1	3340	3270	3297	.	.
16AUG82	1.30	28.1	15.1	20.6	3280	3120	3214	.	.
17AUG82	1.40	27.2	13.9	20.1	3240	3080	3159	.	.
18AUG82	1.60	29.4	14.9	21.5	3290	3020	3137	.	.
19AUG82	1.40	31.1	14.3	21.7	3360	3260	3296	.	.
20AUG82	1.30	30.7	13.8	21.0	3340	3240	3273	.	.
21AUG82	1.30	32.4	15.7	22.0	3340	3220	3262	.	.
22AUG82	1.30	30.9	16.6	21.7	3280	3200	3230	.	.
23AUG82	1.30	29.7	14.1	21.2	3280	3160	3200	.	.
24AUG82	1.20	30.2	15.1	21.5	3240	3100	3158	.	.
25AUG82	4.20	21.6	13.8	16.8	3140	1380	2612	.	.
26AUG82	1.40	28.0	12.2	18.7	3410	3080	3126	.	.
27AUG82	1.10	25.6	12.8	19.3	3480	2960	3269	.	.
28AUG82	1.30	23.0	12.8	18.0	3400	2960	3305	.	.
29AUG82	2.40	26.2	13.1	19.0	3330	1610	2876	.	.
30AUG82	1.50	25.4	12.2	18.4	3430	3310	3358	.	.
31AUG82	1.30	25.4	11.3	18.1	3410	3300	3352	.	.

- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01SEP82	0.31	24.9	6.5	13.3	.	.	.	.	.
02SEP82	0.31	24.6	5.5	12.6	.	.	.	.	.
03SEP82	0.36	24.0	6.0	13.0	.	.	.	.	.
04SEP82	0.36	20.5	8.0	12.8	.	.	.	.	.
05SEP82	0.37	25.0	8.1	13.0	.	.	.	.	.
06SEP82	0.37	24.6	6.1	12.5	.	.	.	.	.
07SEP82	0.34	17.6	7.1	10.9	1130	1090	1109	.	.
08SEP82	0.34	21.0	7.4	12.1	1130	1090	1112	.	.
09SEP82	0.38	20.9	7.0	11.8	1130	1080	1115	.	.
10SEP82	0.39	20.5	8.1	12.4	1130	1080	1106	.	.
11SEP82	0.52	11.1	7.4	9.4	1130	420	1008	.	.

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- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=8-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12SEP82	0.48	15.5	4.0	8.3	1130	480	960	.	.
13SEP82	0.49	8.6	5.5	7.1	1130	900	1082	.	.
14SEP82	0.45	12.0	4.6	7.1	1130	1100	1112	.	.
15SEP82	0.38	20.6	4.4	10.3	1130	1080	1110	.	.
16SEP82	0.31	19.9	5.0	10.5	1130	1090	1110	.	.
17SEP82	0.28	17.9	6.4	10.6	1130	1100	1112	.	.
18SEP82	0.28	21.0	5.0	10.1	1130	1080	1113	.	.
19SEP82	0.29	18.5	6.5	10.2	1130	1080	1107	.	.
20SEP82	0.29	18.5	5.5	10.3	1120	1080	1107	.	.
21SEP82	0.29	21.6	5.9	11.1	1120	1090	1106	.	.
22SEP82	0.27	21.0	6.0	11.2	.	.	.	.	.
23SEP82	0.27	21.4	6.4	11.4	.	.	.	.	.
24SEP82	0.27	20.0	4.5	10.6	.	.	.	.	.
25SEP82	0.28	14.5	7.5	10.0	.	.	.	.	.
26SEP82	0.32	20.0	8.1	11.8	.	.	.	.	.
27SEP82	0.52	13.1	4.1	8.4	.	.	.	.	.
28SEP82	0.53	16.0	3.4	7.3	.	.	.	.	.
29SEP82	0.49	9.5	3.5	6.3	.	.	.	.	.
30SEP82	0.45	16.0	5.0	8.5	.	.	.	.	.

------- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=A-DRY FORK ------

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01SEP82	0.00	.	.	.	.	.	.	.	.
02SEP82	0.00	.	.	.	.	.	.	.	.
03SEP82	0.00	.	.	.	.	.	.	.	.
04SEP82	0.00	.	.	.	.	.	.	.	.
05SEP82	0.00	.	.	.	.	.	.	.	.
06SEP82	0.00	.	.	.	.	.	.	.	.
07SEP82	0.00	.	.	.	.	.	.	.	.
08SEP82	0.00	.	.	.	.	.	.	.	.
09SEP82	0.00	.	.	.	.	.	.	.	.
10SEP82	0.00	.	.	.	.	.	.	.	.
11SEP82	0.22	.	.	.	.	.	.	.	.
12SEP82	0.15	.	.	.	.	.	.	.	.
13SEP82	0.00	.	.	.	.	.	.	.	.
14SEP82	0.00	.	.	.	.	.	.	.	.
15SEP82	0.00	.	.	.	.	.	.	.	.
16SEP82	0.00	.	.	.	.	.	.	.	.
17SEP82	0.00	.	.	.	.	.	.	.	.
18SEP82	0.07	.	.	.	.	.	.	.	.
19SEP82	0.03	.	.	.	.	.	.	.	.
20SEP82	0.00	.	.	.	.	.	.	.	.
21SEP82	0.00	.	.	.	.	.	.	.	.
22SEP82	0.00	.	.	.	.	.	.	.	.
23SEP82	0.00	.	.	.	.	.	.	.	.

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ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

------- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=A-DRY FORK ----

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
24SEP82	0.00	.	.	.	.	.	.	.	.
25SEP82	0.00	.	.	.	.	.	.	.	.
26SEP82	0.00	.	.	.	.	.	.	.	.
27SEP82	0.05	.	.	.	.	.	.	.	.
28SEP82	0.00	.	.	.	.	.	.	.	.
29SEP82	0.00	.	.	.	.	.	.	.	.
30SEP82	0.00	.	.	.	.	.	.	.	.

REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=C-BOX ELDER GULCH - WE

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01SEP82	0.00	.	.	.	.	.	.	.	.
02SEP82	0.00	.	.	.	.	.	.	.	.
03SEP82	0.00	.	.	.	.	.	.	.	.
04SEP82	0.00	.	.	.	.	.	.	.	.
05SEP82	0.00	.	.	.	.	.	.	.	.
06SEP82	0.00	.	.	.	.	.	.	.	.
07SEP82	0.00	.	.	.	.	.	.	.	.
08SEP82	0.00	.	.	.	.	.	.	.	.
09SEP82	0.00	.	.	.	.	.	.	.	.
10SEP82	0.00	.	.	.	.	.	.	.	.
11SEP82	0.00	.	.	.	.	.	.	.	.
12SEP82	0.00	.	.	.	.	.	.	.	.
13SEP82	0.01	8.5	5.5	6.8	660	260	517	.	.
14SEP82	0.00	.	.	.	.	.	.	.	.
15SEP82	0.00	.	.	.	.	.	.	.	.
16SEP82	0.00	.	.	.	.	.	.	.	.
17SEP82	0.00	.	.	.	.	.	.	.	.
18SEP82	0.00	.	.	.	.	.	.	.	.
19SEP82	0.01	18.1	16.7	17.3	650	440	560	.	.
20SEP82	0.00	.	.	.	.	.	.	.	.
21SEP82	0.00	.	.	.	.	.	.	.	.
22SEP82	0.00	.	.	.	.	.	.	.	.
23SEP82	0.00	.	.	.	.	.	.	.	.
24SEP82	0.00	.	.	.	.	.	.	.	.
25SEP82	0.00	.	.	.	.	.	.	.	.
26SEP82	0.00	.	.	.	.	.	.	.	.
27SEP82	0.01	13.6	8.5	10.1	570	430	484	.	.
28SEP82	0.00	.	.	.	.	.	.	.	.
29SEP82	0.00	.	.	.	.	.	.	.	.
30SEP82	0.00	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=E-RINKY DINK GULCH --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01SEP82	0.00	.	.	.	.	.	.	.	.
02SEP82	0.00	.	.	.	.	.	.	.	.
03SEP82	0.00	.	.	.	.	.	.	.	.
04SEP82	0.00	.	.	.	.	.	.	.	.
05SEP82	0.00	.	.	.	.	.	.	.	.
06SEP82	0.00	.	.	.	.	.	.	.	.
07SEP82	0.00	.	.	.	.	.	.	.	.
08SEP82	0.00	.	.	.	.	.	.	.	.
09SEP82	0.00	.	.	.	.	.	.	.	.
10SEP82	0.00	.	.	.	.	.	.	.	.
11SEP82	0.02	.	.	.	.	.	.	.	.
12SEP82	0.02	.	.	.	.	.	.	.	.
13SEP82	0.02	.	.	.	.	.	.	.	.
14SEP82	0.00	.	.	.	.	.	.	.	.
15SEP82	0.00	.	.	.	.	.	.	.	.
16SEP82	0.00	.	.	.	.	.	.	.	.
17SEP82	0.00	.	.	.	.	.	.	.	.
18SEP82	0.00	.	.	.	.	.	.	.	.
19SEP82	0.00	.	.	.	.	.	.	.	.
20SEP82	0.00	.	.	.	.	.	.	.	.
21SEP82	0.00	.	.	.	.	.	.	.	.
22SEP82	0.00	.	.	.	.	.	.	.	.
23SEP82	0.00	.	.	.	.	.	.	.	.
24SEP82	0.00	.	.	.	.	.	.	.	.
25SEP82	0.00	.	.	.	.	.	.	.	.
26SEP82	0.00	.	.	.	.	.	.	.	.
27SEP82	0.00	.	.	.	.	.	.	.	.
28SEP82	0.00	.	.	.	.	.	.	.	.
29SEP82	0.00	.	.	.	.	.	.	.	.
30SEP82	0.00	.	.	.	.	.	.	.	.

- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01SEP82	0.63	16.2	9.5	11.9	1480	1440	1450	.	.
02SEP82	0.59	16.2	9.2	11.6	1450	1440	1446	.	.
03SEP82	0.55	16.0	9.2	11.6	1450	1440	1445	.	.
04SEP82	0.55	15.5	9.9	11.6	1450	1440	1445	.	.
05SEP82	0.56	16.2	10.0	11.8	1450	1400	1435	.	.
06SEP82	0.57	16.2	9.0	11.5	1450	1410	1439	.	.
07SEP82	0.58	14.9	9.7	11.2	1450	1410	1442	.	.
08SEP82	0.54	15.2	9.7	11.5	1450	1400	1436	.	.
09SEP82	0.50	15.7	9.5	11.3	1450	1440	1444	.	.
10SEP82	0.51	15.5	10.0	11.7	1450	1400	1439	.	.
11SEP82	1.00	11.9	10.0	10.8	1470	640	1224	.	.
12SEP82	1.40	16.0	6.2	10.4	1430	750	1283	.	.

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- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=D-CORRAL GULCH - EAST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
13SEP82	2.10	11.5	8.5	9.4	1350	1100	1264	.	.
14SEP82	1.10	11.5	8.0	9.5	1400	1300	1338	.	.
15SEP82	0.66	14.6	8.5	10.6	1400	1300	1355	.	.
16SEP82	0.53	15.5	8.5	11.0	1410	1300	1372	.	.
17SEP82	0.49	15.0	9.6	11.3	1410	1380	1398	.	.
18SEP82	0.55	15.7	8.5	11.0	1410	900	1338	.	.
19SEP82	0.53	15.5	9.5	11.1	1410	1300	1378	.	.
20SEP82	0.53	15.4	9.0	10.9	1410	1300	1390	.	.
21SEP82	0.58	16.2	9.0	11.4	1410	1300	1383	.	.
22SEP82	0.55	15.0	9.0	11.2	1410	1310	1389	.	.
23SEP82	0.55	15.4	9.5	11.4	1410	1300	1391	.	.
24SEP82	0.58	15.0	9.0	11.1	1410	1300	1378	.	.
25SEP82	0.62	13.2	10.0	10.9	1400	1380	1391	.	.
26SEP82	0.61	15.2	10.1	11.6	1410	1340	1390	.	.
27SEP82	0.88	13.4	8.5	10.3	1400	910	1234	.	.
28SEP82	0.73	13.7	7.0	9.5	1380	910	1298	.	.
29SEP82	0.79	11.2	6.5	9.2	1380	800	1286	.	.
30SEP82	0.69	13.8	9.0	10.3	1390	1300	1343	.	.

-- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=F-LOWER YELLOW CREEK

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01SEP82	1.3	27.7	11.1	18.8	3410	3290	3341	.	.
02SEP82	1.3	26.5	9.1	17.5	3380	3270	3316	.	.
03SEP82	1.3	25.4	9.1	16.8	3370	3270	3306	.	.
04SEP82	1.3	24.0	11.0	16.7	3310	3240	3269	.	.
05SEP82	1.3	26.2	14.1	18.1	3310	3220	3254	.	.
06SEP82	1.3	26.8	10.3	17.3	3260	3170	3210	.	.
07SEP82	1.3	21.6	12.2	16.4	3210	3160	3188	.	.
08SEP82	1.3	24.5	11.2	16.9	3270	3170	3219	.	.
09SEP82	1.3	25.6	11.1	17.8	3340	3230	3273	.	.
10SEP82	1.3	21.4	12.6	16.4	3290	3170	3257	.	.
11SEP82	3.1	15.6	11.9	13.3	3210	1770	2732	.	.
12SEP82	3.7	20.7	9.1	13.6	3210	1080	3020	.	.
13SEP82	3.8	12.0	9.4	10.4	2940	1400	2464	.	.
14SEP82	2.7	14.3	7.2	10.6	3180	2610	3081	.	.
15SEP82	2.2	19.5	7.6	12.8	3240	2870	3164	.	.
16SEP82	2.0	22.9	8.7	15.0	3280	3210	3243	.	.
17SEP82	1.9	21.9	11.3	15.8	3250	3060	3211	.	.
18SEP82	1.9	24.7	8.0	15.8	3270	3190	3222	.	.
19SEP82	1.8	20.9	10.4	15.1	3230	3150	3194	.	.
20SEP82	2.0	22.6	9.7	15.4	3180	3040	3116	.	.
21SEP82	1.9	24.8	9.4	16.1	3150	3070	3118	.	.
22SEP82	1.9	23.1	5.7	15.7	3230	2970	3095	.	.
23SEP82	1.8	24.5	10.4	16.5	3220	2980	3125	.	.
24SEP82	1.8	23.0	8.0	15.1	3200	3020	3112	.	.

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-- REPORT YEAR=1982 MONTH=SEPTEMBER STATION LOCATION=F-LOWER YELLOW CREEK --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
25SEP82	1.8	15.0	11.2	13.0	3180	2980	3092	.	.
26SEP82	1.9	20.7	12.7	15.4	3180	3010	3044	.	.
27SEP82	3.4	14.1	9.2	12.1	3180	1370	2626	.	.
28SEP82	4.7	13.5	7.4	9.5	3140	1000	2534	.	.
29SEP82	3.8	12.9	6.5	9.2	3100	1350	2614	.	.
30SEP82	2.5	16.6	7.5	10.3	3120	2960	3051	.	.

-- REPORT YEAR=1982 MONTH=OCTOBER STATION LOCATION=B-CORRAL GULCH - WEST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01OCT82	0.23	14.1	2.1	6.7	.	.	.	.	.
02OCT82	0.24	15.6	1.5	6.5	.	.	.	.	.
03OCT82	0.26	14.9	1.9	6.5	.	.	.	.	.
04OCT82	0.20	15.6	2.5	7.3	.	.	.	.	.
05OCT82	0.42	7.6	1.6	4.2	.	.	.	.	.
06OCT82	0.46	14.1	0.5	5.1	.	.	.	.	.
07OCT82	0.45	13.1	0.5	5.4	.	.	.	.	.
08OCT82	0.41	10.6	0.0	3.4	.	.	.	.	.
09OCT82	0.37	7.1	0.0	2.8	.	.	.	.	.
10OCT82	0.36	10.1	0.0	2.9	.	.	.	.	.
11OCT82	0.35	10.5	0.0	2.8	.	.	.	.	.
12OCT82	0.33	11.1	0.4	4.2	.	.	.	.	.
13OCT82	0.32	12.0	0.9	5.2	.	.	.	.	.
14OCT82	0.29	13.0	0.9	4.8	1130	1100	1111	.	.
15OCT82	0.26	14.6	0.0	6.0	1138	1088	1115	.	.
16OCT82	0.26	13.0	0.5	5.2	1146	1106	1128	.	.
17OCT82	0.23	12.5	1.1	5.3	1154	1124	1139	.	.
18OCT82	0.25	12.4	1.9	5.3	1161	1051	1130	.	.
19OCT82	0.26	8.6	0.0	2.4	1229	1059	1134	.	.
20OCT82	0.28	10.0	0.0	2.8	1177	1057	1134	.	.
21OCT82	0.30	10.6	0.0	3.2	1185	955	1143	.	.
22OCT82	0.31	10.5	0.5	4.0	1193	1063	1137	.	.
23OCT82	0.28	12.0	0.6	4.8	1151	1071	1099	.	.
24OCT82	0.28	14.0	1.9	6.5	1109	1069	1090	.	.
25OCT82	0.31	11.4	3.6	7.0	1116	1076	1096	.	.
26OCT82	0.30	9.1	2.7	5.6	1124	1074	1098	.	.
27OCT82	0.34	5.1	0.1	2.7	1132	1022	1100	.	.
28OCT82	0.32	6.6	0.0	1.3	1210	1090	1135	.	.
29OCT82	0.30	7.0	0.0	2.5	1130	1010	1105	.	.
30OCT82	0.28	8.1	0.5	4.6	1130	1090	1111	.	.
31OCT82	0.36	7.9	0.0	4.7	1130	800	1025	.	.

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- REPORT YEAR=1982 MONTH=OCTOBER STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
010CT82	0	.	.	.	.	.	.	.	.
020CT82	0	.	.	.	.	.	.	.	.
030CT82	0	.	.	.	.	.	.	.	.
040CT82	0	.	.	.	.	.	.	.	.
050CT82	0	.	.	.	.	.	.	.	.
060CT82	0	.	.	.	.	.	.	.	.
070CT82	0	.	.	.	.	.	.	.	.
080CT82	0	.	.	.	.	.	.	.	.
090CT82	0	.	.	.	.	.	.	.	.
100CT82	0	.	.	.	.	.	.	.	.
110CT82	0	.	.	.	.	.	.	.	.
120CT82	0	.	.	.	.	.	.	.	.
130CT82	0	.	.	.	.	.	.	.	.
140CT82	0	.	.	.	.	.	.	.	.
150CT82	0	.	.	.	.	.	.	.	.
160CT82	0	.	.	.	.	.	.	.	.
170CT82	0	.	.	.	.	.	.	.	.
180CT82	0	.	.	.	.	.	.	.	.
190CT82	0	.	.	.	.	.	.	.	.
200CT82	0	.	.	.	.	.	.	.	.
210CT82	0	.	.	.	.	.	.	.	.
220CT82	0	.	.	.	.	.	.	.	.
230CT82	0	.	.	.	.	.	.	.	.
240CT82	0	.	.	.	.	.	.	.	.
250CT82	0	.	.	.	.	.	.	.	.
260CT82	0	.	.	.	.	.	.	.	.
270CT82	0	.	.	.	.	.	.	.	.
280CT82	0	.	.	.	.	.	.	.	.
290CT82	0	.	.	.	.	.	.	.	.
300CT82	0	.	.	.	.	.	.	.	.
310CT82	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=OCTOBER STATION LOCATION=D-CORRAL GULCH - EAST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
010CT82	0.57	12.7	8.0	9.6	1390	1380	1388	.	.
020CT82	0.59	13.9	8.0	9.9	1410	1350	1391	.	.
030CT82	0.66	13.5	8.0	9.7	1410	1380	1396	.	.
040CT82	0.67	13.6	8.0	10.0	1410	1380	1400	.	.
050CT82	0.77	10.2	7.7	8.7	1400	1310	1374	.	.
060CT82	0.78	13.4	7.9	9.5	1420	1350	1397	.	.
070CT82	0.79	12.9	8.0	9.5	1410	1350	1400	.	.
080CT82	0.67	12.2	6.8	8.9	1430	1250	1385	.	.
090CT82	0.65	10.6	8.0	8.7	1450	1330	1398	.	.
100CT82	0.65	11.4	7.5	8.8	1440	1330	1402	.	.
110CT82	0.65	12.3	7.5	8.9	1440	1310	1400	.	.

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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1982 MONTH=OCTOBER STATION LOCATION=D-CORRAL GULCH - EAST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12OCT82	0.68	12.7	8.0	9.3	1440	1280	1405	.	.
13OCT82	0.69	13.0	6.9	9.3	1420	1340	1395	.	.
14OCT82	0.61	13.2	8.0	9.5	1440	1340	1406	.	.
15OCT82	0.58	13.7	8.2	9.8	1430	1340	1393	.	.
16OCT82	0.57	13.2	8.1	9.6	1410	1340	1378	.	.
17OCT82	0.58	12.7	8.2	9.6	1410	1340	1382	.	.
18OCT82	0.54	12.7	8.2	9.5	1450	1340	1388	.	.
19OCT82	0.55	12.0	7.2	8.7	1440	1340	1399	.	.
20OCT82	0.54	12.2	7.5	8.9	1440	1280	1388	.	.
21OCT82	0.53	12.2	7.5	9.0	1410	1240	1383	.	.
22OCT82	0.50	11.0	7.5	8.9	1410	1240	1380	.	.
23OCT82	0.51	12.5	8.0	9.3	1390	1240	1364	.	.
24OCT82	0.42	13.0	8.2	9.7	1400	1310	1371	.	.
25OCT82	0.42	11.4	8.9	9.8	1390	1340	1359	.	.
26OCT82	0.46	10.5	8.5	9.4	1390	1300	1353	.	.
27OCT82	0.45	9.7	6.2	8.3	1350	1300	1331	.	.
28OCT82	0.42	11.1	7.0	8.2	1380	1240	1345	.	.
29OCT82	0.43	10.8	7.0	8.3	1450	1290	1374	.	.
30OCT82	0.41	10.4	8.2	8.9	1430	1360	1398	.	.
31OCT82	0.49	10.6	7.2	8.5	1400	950	1274	.	.

-- REPORT YEAR=1982 MONTH=NOVEMBER STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01NOV82	0.32	8.6	0.0	3.5	1130	990	1098	.	.
02NOV82	0.32	6.0	0.0	1.5	1230	1020	1156	.	.
03NOV82	0.31	3.1	0.0	0.4	1230	1080	1157	.	.
04NOV82	0.27	5.6	0.0	1.3	1200	1090	1163	.	.
05NOV82	0.24	6.0	0.0	1.3	.	.	.	.	.
06NOV82	0.20	6.1	0.0	1.3	1130	1090	1111	.	.
07NOV82	0.17	6.1	0.0	1.4	1200	1080	1131	.	.
08NOV82	0.14	6.0	0.0	3.1	1130	1100	1110	.	.
09NOV82	0.16	7.1	0.0	3.1	1130	1100	1110	.	.
10NOV82	0.15	6.4	0.0	2.0	1130	1080	1109	.	.
11NOV82	0.14	4.5	0.0	1.2	1200	1080	1114	.	.
12NOV82	0.13	0.5	0.0	0.0	1230	1080	1170	.	.
13NOV82	0.12	2.5	0.0	0.4	1190	1080	1128	.	.
14NOV82	0.12	0.0	0.0	0.0	1220	1080	1154	.	.
15NOV82	0.12	2.5	0.0	0.3	1210	1080	1160	.	.
16NOV82	0.12	2.0	0.0	0.3	1130	1080	1119	.	.
17NOV82	0.12	2.9	0.0	0.8	.	.	.	.	.
18NOV82	0.12	4.1	0.5	2.2	.	.	.	.	.
19NOV82	0.12	3.5	0.0	1.1	.	.	.	.	.
20NOV82	0.12	1.6	0.0	0.4	.	.	.	.	.
21NOV82	0.12	2.6	0.0	0.5	.	.	.	.	.
22NOV82	0.13	2.1	0.0	0.3	.	.	.	.	.

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-- REPORT YEAR=1982 MONTH=NOVEMBER STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
23NOV82	0.13	0.1	0.0	0.0	.	.	.	.	.
24NOV82	0.13	1.4	0.0	0.3	.	.	.	.	.
25NOV82	0.13	3.1	0.6	1.8	.	.	.	.	.
26NOV82	0.12	1.1	0.0	0.2	.	.	.	.	.
27NOV82	0.12	0.6	0.0	0.0	.	.	.	.	.
28NOV82	0.12	2.4	0.0	1.0	.	.	.	.	.
29NOV82	0.12	2.9	0.0	1.6	.	.	.	.	.
30NOV82	0.11	3.1	0.6	1.9	.	.	.	.	.

REPORT YEAR=1982 MONTH=NOVEMBER STATION LOCATION=C-BOX ELDER GULCH - WES

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01NOV82	0	.	.	.	.	.	.	.	.
02NOV82	0	.	.	.	.	.	.	.	.
03NOV82	0	.	.	.	.	.	.	.	.
04NOV82	0	.	.	.	.	.	.	.	.
05NOV82	0	.	.	.	.	.	.	.	.
06NOV82	0	.	.	.	.	.	.	.	.
07NOV82	0	.	.	.	.	.	.	.	.
08NOV82	0	.	.	.	.	.	.	.	.
09NOV82	0	.	.	.	.	.	.	.	.
10NOV82	0	.	.	.	.	.	.	.	.
11NOV82	0	.	.	.	.	.	.	.	.
12NOV82	0	.	.	.	.	.	.	.	.
13NOV82	0	.	.	.	.	.	.	.	.
14NOV82	0	.	.	.	.	.	.	.	.
15NOV82	0	.	.	.	.	.	.	.	.
16NOV82	0	.	.	.	.	.	.	.	.
17NOV82	0	.	.	.	.	.	.	.	.
18NOV82	0	.	.	.	.	.	.	.	.
19NOV82	0	.	.	.	.	.	.	.	.
20NOV82	0	.	.	.	.	.	.	.	.
21NOV82	0	.	.	.	.	.	.	.	.
22NOV82	0	.	.	.	.	.	.	.	.
23NOV82	0	.	.	.	.	.	.	.	.
24NOV82	0	.	.	.	.	.	.	.	.
25NOV82	0	.	.	.	.	.	.	.	.
26NOV82	0	.	.	.	.	.	.	.	.
27NOV82	0	.	.	.	.	.	.	.	.
28NOV82	0	.	.	.	.	.	.	.	.
29NOV82	0	.	.	.	.	.	.	.	.
30NOV82	0	.	.	.	.	.	.	.	.

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-- REPORT YEAR=1982 MONTH=NOVEMBER STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01NOV82	0.37	10.7	7.7	8.8	1440	1350	1398	.	.
02NOV82	0.37	10.5	7.0	8.0	1450	1240	1417	.	.
03NOV82	0.36	11.0	7.0	8.2	1459	1399	1437	.	.
04NOV82	0.35	11.5	7.2	8.4	1458	1368	1426	.	.
05NOV82	0.36	11.2	7.2	8.3	1468	1338	1433	.	.
06NOV82	0.36	11.2	7.2	8.3	1457	1317	1434	.	.
07NOV82	0.34	11.4	7.2	8.3	1456	1336	1447	.	.
08NOV82	0.35	9.6	8.0	8.7	1465	1365	1447	.	.
09NOV82	0.33	11.0	7.5	8.8	1465	1415	1454	.	.
10NOV82	0.37	11.0	5.9	8.4	1484	1324	1439	.	.
11NOV82	0.39	9.2	6.5	8.0	1433	1423	1429	.	.
12NOV82	0.36	10.4	6.5	7.7	1442	1402	1433	.	.
13NOV82	0.36	9.5	6.5	7.6	1452	1412	1446	.	.
14NOV82	0.35	10.0	6.0	7.4	1471	1421	1453	.	.
15NOV82	0.35	10.5	6.5	7.6	1460	1420	1445	.	.
16NOV82	0.39	10.4	6.5	7.6	1460	1420	1436	.	.
17NOV82	0.43	10.5	7.0	8.0	1440	1400	1411	.	.
18NOV82	0.43	10.9	7.7	8.6	1410	1390	1405	.	.
19NOV82	0.47	9.0	7.0	7.9	1410	1340	1393	.	.
20NOV82	0.39	10.0	6.5	7.9	1410	1380	1401	.	.
21NOV82	0.43	10.2	6.5	7.9	1440	1400	1415	.	.
22NOV82	0.39	8.7	6.9	7.5	1440	1400	1421	.	.
23NOV82	0.39	9.4	6.0	7.0	1440	1400	1414	.	.
24NOV82	0.43	9.2	6.1	7.4	1460	1400	1421	.	.
25NOV82	0.39	10.0	6.5	7.9	1440	1390	1414	.	.
26NOV82	0.43	9.5	6.5	7.3	1450	1400	1421	.	.
27NOV82	0.43	9.5	6.5	7.3	1450	1400	1421	.	.
28NOV82	0.43	9.5	6.7	7.9	1430	1400	1414	.	.
29NOV82	0.43	9.7	7.4	8.1	1440	1390	1417	.	.
30NOV82	0.43	9.7	7.5	8.3	1440	1390	1414	.	.

-- REPORT YEAR=1982 MONTH=DECEMBER STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01DEC82	0.12	3.1	0.0	1.3	.	.	.	.	.
02DEC82	0.12	2.4	0.0	0.8	.	.	.	.	.
03DEC82	0.11	1.4	0.0	0.2	.	.	.	.	.
04DEC82	0.12	1.9	0.0	0.5	.	.	.	.	.
05DEC82	0.11	2.1	0.0	0.5	.	.	.	.	.
06DEC82	0.11	2.1	0.0	0.8	.	.	.	.	.
07DEC82	0.12	1.5	0.0	0.4	1100	1080	1085	.	.
08DEC82	0.13	0.0	0.0	0.0	1130	1080	1105	.	.
09DEC82	0.16	2.1	0.0	0.8	1130	1080	1106	.	.
10DEC82	0.16	3.0	1.0	1.8	.	.	.	.	.
11DEC82	0.14	2.6	0.0	1.1	.	.	.	.	.
12DEC82	0.14	0.0	0.0	0.0	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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-- REPORT YEAR=1982 MONTH=DECEMBER STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
13DEC82	0.16	1.6	0.0	0.4	.	.	.	.	.
14DEC82	0.16	0.6	0.0	0.1	.	.	.	.	.
15DEC82	0.16	1.9	0.0	0.7	.	.	.	.	.
16DEC82	0.14	2.1	0.1	1.0	.	.	.	.	.
17DEC82	0.13	1.6	0.0	0.4	.	.	.	.	.
18DEC82	0.13	0.0	0.0	0.0	.	.	.	.	.
19DEC82	0.15	0.0	0.0	0.0	.	.	.	.	.
20DEC82	0.14	0.6	0.0	0.1	.	.	.	.	.
21DEC82	0.14	2.1	0.0	0.7	.	.	.	.	.
22DEC82	0.12	2.6	0.0	1.3	.	.	.	.	.
23DEC82	0.12	2.6	0.5	1.5	.	.	.	.	.
24DEC82	0.10	0.4	0.0	0.0	.	.	.	.	.
25DEC82	0.10	0.0	0.0	0.0	.	.	.	.	.
26DEC82	0.12	0.0	0.0	0.0	.	.	.	.	.
27DEC82	0.11	0.0	0.0	0.0	.	.	.	.	.
28DEC82	0.12	0.1	0.0	0.0	.	.	.	.	.
29DEC82	0.10	0.0	0.0	0.0	.	.	.	.	.
30DEC82	0.10	0.0	0.0	0.0	.	.	.	.	.
31DEC82	0.15	0.0	0.0	0.0	.	.	.	.	.

REPORT YEAR=1982 MONTH=DECEMBER STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01DEC82	0	.	.	.	.	.	.	.	.
02DEC82	0	.	.	.	.	.	.	.	.
03DEC82	0	.	.	.	.	.	.	.	.
04DEC82	0	.	.	.	.	.	.	.	.
05DEC82	0	.	.	.	.	.	.	.	.
06DEC82	0	.	.	.	.	.	.	.	.
07DEC82	0	.	.	.	.	.	.	.	.
08DEC82	0	.	.	.	.	.	.	.	.
09DEC82	0	.	.	.	.	.	.	.	.
10DEC82	0	.	.	.	.	.	.	.	.
11DEC82	0	.	.	.	.	.	.	.	.
12DEC82	0	.	.	.	.	.	.	.	.
13DEC82	0	.	.	.	.	.	.	.	.
14DEC82	0	.	.	.	.	.	.	.	.
15DEC82	0	.	.	.	.	.	.	.	.
16DEC82	0	.	.	.	.	.	.	.	.
17DEC82	0	.	.	.	.	.	.	.	.
18DEC82	0	.	.	.	.	.	.	.	.
19DEC82	0	.	.	.	.	.	.	.	.
20DEC82	0	.	.	.	.	.	.	.	.
21DEC82	0	.	.	.	.	.	.	.	.
22DEC82	0	.	.	.	.	.	.	.	.
23DEC82	0	.	.	.	.	.	.	.	.

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REPORT YEAR=1982 MONTH=DECEMBER STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
24DEC82	0	.	.	.	.	.	.	.	.
25DEC82	0	.	.	.	.	.	.	.	.
26DEC82	0	.	.	.	.	.	.	.	.
27DEC82	0	.	.	.	.	.	.	.	.
28DEC82	0	.	.	.	.	.	.	.	.
29DEC82	0	.	.	.	.	.	.	.	.
30DEC82	0	.	.	.	.	.	.	.	.
31DEC82	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1982 MONTH=DECEMBER STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01DEC82	0.43	9.4	6.5	7.8	1440	1400	1408	.	.
02DEC82	0.43	8.9	6.7	7.9	1450	1390	1421	.	.
03DEC82	0.43	9.7	6.5	7.5	1450	1380	1427	.	.
04DEC82	0.43	10.2	6.5	7.7	1450	1400	1426	.	.
05DEC82	0.47	10.0	6.5	7.6	1450	1390	1416	.	.
06DEC82	0.47	10.5	7.0	8.1	1450	1400	1421	.	.
07DEC82	0.47	8.5	6.5	7.5	1450	1400	1422	.	.
08DEC82	0.47	9.0	6.7	7.4	1450	1390	1438	.	.
09DEC82	0.43	9.0	6.5	7.9	1450	1380	1415	.	.
10DEC82	0.47	9.4	7.9	8.3	1450	1390	1426	.	.
11DEC82	0.47	9.4	6.5	7.8	1450	1400	1426	.	.
12DEC82	0.48	9.2	6.5	7.2	1450	1400	1438	.	.
13DEC82	0.48	9.0	6.9	7.7	1450	1400	1429	.	.
14DEC82	0.48	8.7	6.5	7.1	1450	1390	1426	.	.
15DEC82	0.48	9.5	6.5	7.8	1450	1390	1419	.	.
16DEC82	0.49	9.7	7.0	7.9	1450	1390	1420	.	.
17DEC82	0.49	8.7	6.7	7.5	1450	1380	1413	.	.
18DEC82	0.49	.	.	.	.	.	.	.	.
19DEC82	0.49	.	.	.	.	.	.	.	.
20DEC82	0.50	.	.	.	.	.	.	.	.
21DEC82	0.50	.	.	.	.	.	.	.	.
22DEC82	0.50	.	.	.	.	.	.	.	.
23DEC82	0.51	.	.	.	.	.	.	.	.
24DEC82	0.55	.	.	.	.	.	.	.	.
25DEC82	0.55	.	.	.	.	.	.	.	.
26DEC82	0.55	.	.	.	.	.	.	.	.
27DEC82	0.55	.	.	.	.	.	.	.	.
28DEC82	0.56	.	.	.	.	.	.	.	.
29DEC82	0.56	.	.	.	.	.	.	.	.
30DEC82	0.56	.	.	.	.	.	.	.	.
31DEC82	0.62	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
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-- REPORT YEAR=1983 MONTH=JANUARY STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN83	0.15	0.0	0.0	0.0	.	.	.	.	.
02JAN83	0.14	0.0	0.0	0.0	.	.	.	.	.
03JAN83	0.11	0.6	0.0	0.1	.	.	.	.	.
04JAN83	0.09	1.1	0.0	0.4	.	.	.	.	.
05JAN83	0.08	1.6	0.5	1.0	.	.	.	.	.
06JAN83	0.08	2.0	1.0	1.6	1090	1010	1043	.	.
07JAN83	0.08	2.1	1.0	1.6	1080	1000	1034	.	.
08JAN83	0.09	1.6	0.0	0.7	1080	1000	1035	.	.
09JAN83	0.07	0.0	0.0	0.0	1100	1000	1059	.	.
10JAN83	0.07	0.5	0.0	0.0	1100	980	1026	.	.
11JAN83	0.09	0.5	0.0	0.0	.	.	.	.	.
12JAN83	0.09	0.1	0.0	0.0	.	.	.	.	.
13JAN83	0.09	0.0	0.0	0.0	.	.	.	.	.
14JAN83	0.09	1.0	0.0	0.1	.	.	.	.	.
15JAN83	0.09	0.6	0.0	0.0	.	.	.	.	.
16JAN83	0.09	1.0	0.0	0.2	.	.	.	.	.
17JAN83	0.09	1.9	0.5	1.0	.	.	.	.	.
18JAN83	0.08	1.6	0.0	0.8	.	.	.	.	.
19JAN83	0.07	1.9	0.0	0.7	.	.	.	.	.
20JAN83	0.06	1.1	0.0	0.4	1090	1030	1072	.	.
21JAN83	0.05	1.6	0.0	0.6	1104	1024	1073	.	.
22JAN83	0.04	1.1	0.0	0.5	1097	1017	1071	.	.
23JAN83	0.03	1.5	0.0	0.5	1111	1021	1069	.	.
24JAN83	0.02	1.0	0.0	0.3	1115	1025	1073	.	.
25JAN83	0.02	1.9	0.0	0.9	1108	1018	1047	.	.
26JAN83	0.02	1.6	0.0	0.5	1112	1022	1075	.	.
27JAN83	0.02	2.0	0.0	0.8	1116	1026	1065	.	.
28JAN83	0.03	2.0	0.4	1.0	1109	1029	1054	.	.
29JAN83	0.02	1.6	0.0	0.5	1133	1033	1074	.	.
30JAN83	0.03	1.5	0.0	0.3	1127	1037	1087	.	.
31JAN83	0.00	.	.	.	.	.	.	.	.

- REPORT YEAR=1983 MONTH=JANUARY STATION LOCATION=C-BOX ELDER GULCH - WES

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN83	0	.	.	.	.	.	.	.	.
02JAN83	0	.	.	.	.	.	.	.	.
03JAN83	0	.	.	.	.	.	.	.	.
04JAN83	0	.	.	.	.	.	.	.	.
05JAN83	0	.	.	.	.	.	.	.	.
06JAN83	0	.	.	.	.	.	.	.	.
07JAN83	0	.	.	.	.	.	.	.	.
08JAN83	0	.	.	.	.	.	.	.	.
09JAN83	0	.	.	.	.	.	.	.	.
10JAN83	0	.	.	.	.	.	.	.	.
11JAN83	0	.	.	.	.	.	.	.	.

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- REPORT YEAR=1983 MONTH=JANUARY STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
12JAN83	0	.	.	.	.	.	.	.	.
13JAN83	0	.	.	.	.	.	.	.	.
14JAN83	0	.	.	.	.	.	.	.	.
15JAN83	0	.	.	.	.	.	.	.	.
16JAN83	0	.	.	.	.	.	.	.	.
17JAN83	0	.	.	.	.	.	.	.	.
18JAN83	0	.	.	.	.	.	.	.	.
19JAN83	0	.	.	.	.	.	.	.	.
20JAN83	0	.	.	.	.	.	.	.	.
21JAN83	0	.	.	.	.	.	.	.	.
22JAN83	0	.	.	.	.	.	.	.	.
23JAN83	0	.	.	.	.	.	.	.	.
24JAN83	0	.	.	.	.	.	.	.	.
25JAN83	0	.	.	.	.	.	.	.	.
26JAN83	0	.	.	.	.	.	.	.	.
27JAN83	0	.	.	.	.	.	.	.	.
28JAN83	0	.	.	.	.	.	.	.	.
29JAN83	0	.	.	.	.	.	.	.	.
30JAN83	0	.	.	.	.	.	.	.	.
31JAN83	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1983 MONTH=JANUARY STATION LOCATION=D-CORRAL GULCH - EAST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01JAN83	0.62	.	.	.	.	.	.	.	.
02JAN83	0.62	.	.	.	.	.	.	.	.
03JAN83	0.62	.	.	.	.	.	.	.	.
04JAN83	0.62	.	.	.	.	.	.	.	.
05JAN83	0.62	.	.	.	.	.	.	.	.
06JAN83	0.58	8.2	7.7	7.9	1450	1410	1434	.	.
07JAN83	0.54	9.7	7.0	8.0	1474	1314	1396	.	.
08JAN83	0.53	10.0	5.7	7.5	1518	1348	1436	.	.
09JAN83	0.53	8.7	5.5	6.6	1551	1451	1503	.	.
10JAN83	0.53	9.2	6.0	7.2	1575	1475	1515	.	.
11JAN83	0.52	9.5	6.5	7.3	1545	1410	1515	.	.
12JAN83	0.52	9.5	6.4	7.2	1451	1411	1420	.	.
13JAN83	0.52	9.7	6.2	7.3	1461	1401	1428	.	.
14JAN83	0.52	9.7	6.4	7.3	1472	1422	1437	.	.
15JAN83	0.51	9.5	6.4	7.3	1453	1423	1444	.	.
16JAN83	0.51	9.7	6.4	7.4	1463	1433	1453	.	.
17JAN83	0.51	10.2	7.0	8.0	1514	1444	1467	.	.
18JAN83	0.50	9.5	5.7	7.6	1514	1454	1483	.	.
19JAN83	0.50	9.2	6.5	7.7	1535	1465	1491	.	.
20JAN83	0.50	9.7	6.5	7.5	1525	1400	1446	.	.
21JAN83	0.49	9.7	6.7	7.7	1410	1390	1401	.	.
22JAN83	0.49	9.5	6.7	7.6	1410	1380	1397	.	.

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-- REPORT YEAR=1983 MONTH=JANUARY STATION LOCATION=D-CORRAL GULCH - EAST --

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
23JAN83	0.49	8.9	6.5	7.5	1450	1380	1414	.	.
24JAN83	0.48	8.4	6.2	7.3	1440	1380	1402	.	.
25JAN83	0.48	9.5	6.7	7.8	.	.	.	.	.
26JAN83	0.44	10.0	6.9	7.7	1410	1390	1404	.	.
27JAN83	0.44	10.4	6.7	7.9	1450	1380	1405	.	.
28JAN83	0.47	10.0	6.9	8.0	.	.	.	.	.
29JAN83	0.47	9.7	6.7	7.7	.	.	.	.	.
30JAN83	0.47	9.7	6.5	7.4	1440	1380	1401	.	.
31JAN83	0.46	8.7	6.5	7.2	1410	1380	1402	.	.

-- REPORT YEAR=1983 MONTH=FEBRUARY STATION LOCATION=B-CORRAL GULCH - WEST

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB83	0.03	0.9	0.0	0.1	1134	1044	1085	.	.
02FEB83	0.00	.	.	.	.	.	.	.	.
03FEB83	0.00	.	.	.	.	.	.	.	.
04FEB83	0.00	.	.	.	.	.	.	.	.
05FEB83	0.04	0.6	0.0	0.1	1089	989	1052	.	.
06FEB83	0.02	0.5	0.0	0.0	1143	1063	1088	.	.
07FEB83	0.03	1.1	0.0	0.4	1096	1066	1084	.	.
08FEB83	0.02	1.4	0.4	0.9	1100	1070	1083	.	.
09FEB83	0.02	1.6	0.5	1.0	1100	1000	1051	.	.
10FEB83	0.02	1.5	0.0	0.7	1084	1004	1026	.	.
11FEB83	0.02	0.6	0.0	0.2	1098	1008	1048	.	.
12FEB83	0.00	.	.	.	.	.	.	.	.
13FEB83	0.02	1.4	0.0	0.8	1097	927	1023	.	.
14FEB83	0.04	1.9	0.0	1.1	1101	1021	1040	.	.
15FEB83	0.03	1.5	0.0	0.4	1105	955	1051	.	.
16FEB83	0.05	2.1	0.1	1.0	1060	930	1032	.	.
17FEB83	0.04	1.6	0.0	0.5	1064	980	1053	.	.
18FEB83	0.06	2.1	0.0	0.8	1068	938	1034	.	.
19FEB83	0.08	2.1	0.0	0.7	1072	1022	1047	.	.
20FEB83	0.08	2.6	0.0	0.8	1076	966	1044	.	.
21FEB83	0.04	2.1	0.0	0.8	1081	951	1033	.	.
22FEB83	0.05	2.5	0.0	0.8	1085	861	1021	.	.
23FEB83	0.07	2.1	0.0	0.7	1089	759	1007	.	.
24FEB83	0.06	2.4	0.0	0.7	1020	600	928	.	.
25FEB83	0.09	3.4	0.0	1.2	.	.	.	.	.
26FEB83	0.07	3.4	0.0	1.0	.	.	.	.	.
27FEB83	0.09	3.6	0.0	1.1	.	.	.	.	.
28FEB83	0.11	5.1	0.0	1.7	.	.	.	.	.

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REPORT YEAR=1983 MONTH=FEBRUARY STATION LOCATION=C-BOX ELDER GULCH - WEST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB83	0.00	.	.	.	.	.	.	.	.
02FEB83	0.00	.	.	.	.	.	.	.	.
03FEB83	0.00	.	.	.	.	.	.	.	.
04FEB83	0.00	.	.	.	.	.	.	.	.
05FEB83	0.00	.	.	.	.	.	.	.	.
06FEB83	0.00	.	.	.	.	.	.	.	.
07FEB83	0.00	.	.	.	.	.	.	.	.
08FEB83	0.00	.	.	.	.	.	.	.	.
09FEB83	0.00	.	.	.	.	.	.	.	.
10FEB83	0.00	.	.	.	.	.	.	.	.
11FEB83	0.00	.	.	.	.	.	.	.	.
12FEB83	0.00	.	.	.	.	.	.	.	.
13FEB83	0.00	.	.	.	.	.	.	.	.
14FEB83	0.00	.	.	.	.	.	.	.	.
15FEB83	0.00	.	.	.	.	.	.	.	.
16FEB83	0.00	.	.	.	.	.	.	.	.
17FEB83	0.00	.	.	.	.	.	.	.	.
18FEB83	0.00	.	.	.	.	.	.	.	.
19FEB83	0.00	.	.	.	.	.	.	.	.
20FEB83	0.00	.	.	.	.	.	.	.	.
21FEB83	0.00	.	.	.	.	.	.	.	.
22FEB83	0.00	.	.	.	.	.	.	.	.
23FEB83	0.00	.	.	.	.	.	.	.	.
24FEB83	0.09	0.5	0.4	0.4	240	190	206	.	.
25FEB83	0.09	0.5	0.4	0.4	200	180	187	.	.
26FEB83	0.05	0.4	0.4	0.4	200	190	194	.	.
27FEB83	0.04	0.5	0.3	0.4	210	190	201	.	.
28FEB83	0.04	0.6	0.3	0.4	220	140	186	.	.

REPORT YEAR=1983 MONTH=FEBRUARY STATION LOCATION=D-CORRAL GULCH - EAST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01FEB83	0.46	8.5	6.2	7.3	1390	1380	1385	.	.
02FEB83	0.46	9.7	6.2	7.3	1450	1380	1396	.	.
03FEB83	0.45	9.2	6.0	6.8	1450	1380	1413	.	.
04FEB83	0.45	9.7	6.2	7.3	1440	1380	1406	.	.
05FEB83	0.45	9.7	6.2	7.4	1440	1400	1408	.	.
06FEB83	0.45	9.2	6.0	7.0	1410	1380	1395	.	.
07FEB83	0.44	9.7	6.5	7.7	1410	1380	1401	.	.
08FEB83	0.44	9.9	7.2	8.1	1410	1380	1389	.	.
09FEB83	0.47	10.7	6.7	8.1	1410	1380	1403	.	.
10FEB83	0.47	9.9	6.5	7.7	1410	1390	1403	.	.
11FEB83	0.47	10.5	6.4	7.6	1410	1380	1404	.	.
12FEB83	0.46	10.2	6.5	7.7	1440	1400	1410	.	.
13FEB83	0.46	11.0	6.7	8.1	1410	1380	1399	.	.
14FEB83	0.46	9.5	6.7	7.9	1410	1380	1398	.	.

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FIELD WATER QUALITY (FWQ) MEASUREMENTS

-- REPORT YEAR=1983 MONTH=FEBRUARY STATION LOCATION=D-CORRAL GULCH - EAST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
15FEB83	0.49	10.7	6.5	7.9	1410	1380	1393	.	.
16FEB83	0.49	10.5	6.7	8.0	1410	1380	1395	.	.
17FEB83	0.45	9.9	6.5	7.7	1410	1310	1389	.	.
18FEB83	0.45	10.2	6.7	7.9	1410	1290	1385	.	.
19FEB83	0.44	9.5	6.2	7.9	1410	1380	1402	.	.
20FEB83	0.44	11.4	6.7	8.1	1410	1400	1403	.	.
21FEB83	0.44	11.7	6.5	7.9	1410	1380	1405	.	.
22FEB83	0.47	11.9	6.5	7.8	1410	1140	1347	.	.
23FEB83	0.66	11.5	3.0	6.7	1310	550	1116	.	.
24FEB83	0.94	10.9	2.0	6.1	1380	440	1065	.	.
25FEB83	0.80	9.5	2.7	6.0	1317	617	1100	.	.
26FEB83	0.57	9.4	6.0	7.2	1404	1264	1331	.	.
27FEB83	0.55	10.7	6.5	8.0	1432	1402	1421	.	.
28FEB83	0.88	11.4	3.0	7.3	1439	579	1249	.	.

--- REPORT YEAR=1983 MONTH=MARCH STATION LOCATION=B-CORRAL GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR83	0.11	4.1	0.0	1.4	700	400	445	.	.
02MAR83	0.09	4.6	0.5	1.6	731	431	546	.	.
03MAR83	0.10	3.9	0.0	1.6	753	553	639	.	.
04MAR83	0.07	4.1	0.4	1.8	844	564	671	.	.
05MAR83	0.11	3.6	0.5	1.7	1066	676	902	.	.
06MAR83	0.08	6.5	0.0	2.0	987	667	883	.	.
07MAR83	0.04	.	.	1.4	999	269	773	.	.
08MAR83	0.06	.	.	2.5	1010	760	890	.	.
09MAR83	0.10	10.0	3.6	2.2	830	400	493	.	.
10MAR83	0.10	11.6	0.0	3.1	620	400	512	.	.
11MAR83	0.14	12.1	0.0	3.5	630	390	507	.	.
12MAR83	0.12	13.5	0.5	4.8	630	330	496	.	.
13MAR83	0.26	13.5	0.0	3.7	910	330	543	.	.
14MAR83	0.15	.	.	.	.	.	.	.	.
15MAR83	0.14	.	.	.	.	.	.	.	.
16MAR83	0.07	.	.	.	.	.	.	.	.
17MAR83	0.12	.	.	.	.	.	.	.	.
18MAR83	0.02	.	.	.	.	.	.	.	.
19MAR83	0.15	.	.	.	.	.	.	.	.
20MAR83	0.07	.	.	.	.	.	.	.	.
21MAR83	0.08	.	.	.	.	.	.	.	.
22MAR83	0.11	.	.	.	.	.	.	.	.
23MAR83	0.11	.	.	.	.	.	.	.	.
24MAR83	0.22	.	.	.	.	.	.	.	.
25MAR83	0.22	.	.	.	.	.	.	.	.
26MAR83	0.12	.	.	.	.	.	.	.	.
27MAR83	0.11	.	.	.	.	.	.	.	.
28MAR83	0.00	.	.	.	.	.	.	.	.

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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1983 MONTH=MARCH STATION LOCATION=B-CORRAL GULCH - WEST ---

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
29MAR83	0	.	.	.	.	.	.	.	.
30MAR83	0	.	.	.	.	.	.	.	.

-- REPORT YEAR=1983 MONTH=MARCH STATION LOCATION=C-BOX ELDER GULCH - WEST -

DATE	QM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SLM
01MAR83	0.09	0.6	0.4	0.4	.	.	.	.	.
02MAR83	0.09	0.6	0.4	0.4	.	.	.	.	.
03MAR83	0.03	0.5	0.4	0.4	.	.	.	.	.
04MAR83	0.02	0.6	0.4	0.5	.	.	.	.	.
05MAR83	0.02	0.6	0.4	0.4	.	.	.	.	.
06MAR83	0.02	1.1	0.4	0.5	.	.	.	.	.
07MAR83	0.02	1.1	0.4	0.5	.	.	.	.	.
08MAR83	0.02	1.7	0.4	0.6	.	.	.	.	.
09MAR83	0.02	1.7	0.4	0.5	.	.	.	.	.
10MAR83	0.02	2.5	0.4	0.7	.	.	.	.	.
11MAR83	0.11	6.5	0.5	1.5	.	.	.	.	.
12MAR83	0.30	5.4	0.4	1.3	.	.	.	.	.
13MAR83	0.27	5.5	0.4	1.3	.	.	.	.	.
14MAR83	0.06	0.9	0.4	0.6	.	.	.	.	.
15MAR83	0.07	0.5	0.4	0.4	.	.	.	.	.
16MAR83	0.03	3.2	0.4	0.7	.	.	.	.	.
17MAR83	0.02	3.2	0.4	0.7	.	.	.	.	.
18MAR83	0.00	.	.	.	.	.	.	.	.
19MAR83	0.00	.	.	.	.	.	.	.	.
20MAR83	0.03	.	.	.	.	.	.	.	.
21MAR83	0.06	.	.	.	.	.	.	.	.
22MAR83	0.03	.	.	.	.	.	.	.	.
23MAR83	0.02	.	.	.	.	.	.	.	.
24MAR83	0.00	.	.	.	.	.	.	.	.
25MAR83	0.00	.	.	.	.	.	.	.	.
26MAR83	0.00	.	.	.	.	.	.	.	.
27MAR83	0.00	.	.	.	.	.	.	.	.
28MAR83	0.00	.	.	.	.	.	.	.	.
29MAR83	0.00	.	.	.	.	.	.	.	.
30MAR83	0.00	.	.	.	.	.	.	.	.

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UNITED STATES GEOLOGICAL SURVEY GAUGING STATION DATA
FIELD WATER QUALITY (FWQ) MEASUREMENTS

--- REPORT YEAR=1983 MONTH=MARCH STATION LOCATION=D-CORRAL GULCH - EAST

DATE	GM	THI	TLOW	TM	CHI	CLOW	CM	SSM	SL
01MAR83	1.90	10.3	1.2	5.8	1446	286	969	.	.
02MAR83	0.97	8.2	3.7	6.0	1340	340	826	.	.
03MAR83	0.84	9.7	3.2	6.8	1390	650	1167	.	.
04MAR83	0.83	9.0	4.2	6.8	1400	740	1165	.	.
05MAR83	1.00	8.7	2.7	6.2	1400	540	1079	.	.
06MAR83	0.88	10.9	3.7	7.2	1410	580	1173	.	.
07MAR83	0.69	10.4	5.7	7.5	1400	840	1283	.	.
08MAR83	0.90	12.0	5.2	7.9	1400	640	1236	.	.
09MAR83	1.00	12.7	5.0	7.9	1410	540	1200	.	.
10MAR83	1.00	12.0	4.2	8.2	1410	690	1186	.	.
11MAR83	3.30	12.7	1.7	7.3	1400	300	1036	.	.
12MAR83	1.80	12.7	3.5	8.3	1340	500	1023	.	.
13MAR83	1.50	12.4	5.7	8.5	1390	650	1203	.	.
14MAR83	1.00	9.2	6.4	8.0	1250	1180	1223	.	.
15MAR83	1.00	9.0	7.2	7.8	1250	1240	1246	.	.
16MAR83	1.20	12.5	6.7	8.6	1250	1200	1232	.	.
17MAR83	1.00	10.5	7.4	8.3	1250	1200	1226	.	.
18MAR83	0.90	9.0	6.2	7.5	1310	1240	1286	.	.
19MAR83	0.90	12.2	6.4	8.1	1310	1300	1304	.	.
20MAR83	0.90	12.0	6.7	8.2	1340	1300	1303	.	.
21MAR83	1.00	12.0	6.5	8.3	1350	1310	1329	.	.
22MAR83	1.00	11.7	6.9	8.6	1380	1340	1345	.	.
23MAR83	1.00	13.0	6.4	8.8	1390	1310	1355	.	.
24MAR83	0.90	9.5	6.7	7.9	1410	1340	1392	.	.
25MAR83	0.80	10.9	6.9	8.0	1410	1390	1405	.	.
26MAR83	0.80	10.7	7.0	8.4	1410	1400	1408	.	.
27MAR83	0.79	12.5	6.9	8.7	1410	1390	1406	.	.
28MAR83	0.00	7.7	5.0	8.9	1410	1250	1399	.	.
29MAR83	0.00	.	.	.	.	.	.	.	.
30MAR83	0.00	.	.	.	.	.	.	.	.

APPENDIX 5-4

Environmental Hydrology Water Chemistry Data

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYOROLOGY MONITORING PROGRAM
BASIC AND TRACE WATER QUALITY DATA LISTING

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S22 ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
1	06JAN83	8.5	7.3	2450	1920	629	105	151	2.9	313	742	-0.01	24.5	.	932	.	0.48	-0.05	0.05

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
1	0.45	24	.	12	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S24 ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
2	06JAN83	9	7.2	1800	1426	564	143	117	1.85	191	666	-0.01	16.2	.	601	.	0.37	-0.05	0.03

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
2	0.61	23	.	9	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S27S ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
3	05JAN83	1.0	7.2	1500	1092	554	110	86	1.70	154	658	-0.01	12.6	.	409	.	0.3	1.64	0.18	0.3
4	05APR83	8.7	7.4	1450	1122	466	110	92	1.49	140	545	-0.01	11.8	.	440	.	0.7	3.03	0.16	0.3

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
3	24	.	8	0.02	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4	22	.	9	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S28A0 ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
5	06JAN83	9	7.2	2600	2084	646	150	173	3	291	749	-0.01	26.3	.	1037	.	0.44	-0.05	0.06

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
5	0.41	25	.	12	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
BASIC AND TRACE WATER QUALITY DATA LISTING

REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S28D

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
6	06JAN83	1	7.4	2200	1708	621	100	143	3	264	735	-0.01	21.3	.	790	.	0.53	3.22	0.2	0.43

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
6	24	.	12	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S7

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
7	05JAN83	1	7.1	1200	838	420	100	60	1.33	100	492	-0.01	9.2	.	301	.	0.36	-0.05	0.02

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
7	0.31	22	.	9	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=ALLUVIAL AQUIFER STATION=GS-S8

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
8	05JAN83	0.9	7.2	1000	682	375	87	53	1.07	76	443	-0.01	13.5	.	214	.	0.33	-0.05	0.03

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
8	0.28	21	.	11	-0.01	-0.01	-0.1	-0.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=DEVELOPMENT ACTIVITIES MONITORING SYSTEM STATION=YBOXFL

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
9	24JAN83	8.5	7.5	1350	1032	478	82	69	1.31	180	565	-0.01	9.8	.	365	.	0.5	-0.05	0.04	0.24
10	11APR83	9.8	7.4	1400	1107	441	83	68	1.32	180	529	-0.01	9.0	.	386	.	0.8	-0.05	0.03	0.25

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CO	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
9	19	.	4	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10	24	.	5	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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---------- REPORT YEAR=1983 TYPE=DEVELOPMENT ACTIVITIES MONITORING SYSTEM STATION=YCOFL ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
11	24JAN83	2.0	7.8	1450	1148	546	91	82	0.75	190	648	-0.01	15.1	.	415	.	0.3	0.05	-0.01
12	11APR83	7.2	7.7	1500	1250	546	96	85	1.40	190	643	-0.01	14.4	.	438	.	0.6	-0.05	0.02

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
11	0.33	14	.	7	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12	0.09	18	.	8	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=DEVELOPMENT ACTIVITIES MONITORING SYSTEM STATION=YJEFFPOND ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
13	24JAN83	14.5	7.5	1400	1034	488	41	77	0.36	205	577	-0.01	7.9	.	368	.	1.1	0.14	0.01	0.24
14	11APR83	15.2	7.3	1400	1038	491	45	78	0.42	200	570	-0.01	8.7	.	385	.	1.1	0.13	-0.01	0.09

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
13	20	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14	26	.	7	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=DEVELOPMENT ACTIVITIES MONITORING SYSTEM STATION=YMET3 ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
15	24JAN83	8.0	7.7	1350	1034	488	83	70	1.22	180	577	-0.01	10.7	.	380	.	0.5	-0.05	0.03	0.26
16	11APR83	9.6	7.6	1400	1074	477	85	72	1.32	180	562	-0.01	9.8	.	388	.	0.8	-0.05	0.03	0.27

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
15	18	.	5	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16	24	.	8	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

---------- REPORT YEAR=1983 TYPE=DEVELOPMENT ACTIVITIES MONITORING SYSTEM STATION=YSEOFL ----------

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
17	24JAN83	1.5	7.4	1800	1496	648	113	113	1.7	230	767	-0.01	18.9	.	600	.	0.3	0.10	0.03	0.24
18	11APR83	6.8	7.5	1800	1430	604	101	107	2.1	230	716	-0.01	16.7	.	561	.	0.6	0.07	0.05	0.21

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
17	18	.	7	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18	18	.	13	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
BASIC AND TRACE WATER QUALITY DATA LISTING

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-702U

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
19	11JAN83	14.5	7.7	1450	1018	465	36	75	0.45	201	550	-0.01	10.0	.	379	.	1.6	0.24	-0.01	0.37
20	05APR83	12.5	7.7	1350	996	519	36	78	0.30	210	611	-0.01	7.9	.	376	.	1.7	0.58	-0.01	0.24

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
19	21	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20	20	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-705AU

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
21	12JAN83	12.5	7.4	1250	870	464	59	64	0.27	133	549	-0.01	9.6	.	262	.	0.50	0.20	-0.01	0.16
22	05APR83	10.8	7.6	1200	900	478	63	71	0.23	140	559	-0.01	8.7	.	288	.	0.52	0.39	-0.01	0.25

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
21	32	.	10	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22	33	.	9	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=CE-709U

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
23	11JAN83	1.1	7.0	1500	1166	507	110	87	0.41	132	597	-0.01	13.7	.	441	.	0.60	0.16	-0.01
24	05APR83	10.5	7.1	1600	1270	497	120	95	0.37	140	593	-0.01	14.9	.	483	.	0.57	-0.05	0.01

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
23	0.35	37	.	11	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
24	0.24	34	.	9	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-D1U

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
25	12JAN83	1.5	7.2	1350	1010	466	84	80	0.21	120	550	-0.01	10.5	.	360	.	0.50	-0.05	-0.01
26	04APR83	14.4	7.4	1300	948	470	78	81	0.26	120	543	-0.01	6.2	.	334	.	0.52	-0.05	-0.01

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
25	0.11	33	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
26	0.25	30	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
BASIC AND TRACE WATER QUALITY DATA LISTING

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-03U

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4	B
27	11JAN83	1.5	7.3	1425	1022	434	40	75	0.43	180	510	-0.01	9.5	.	399	.	2.5	0.33	-0.01	0.20
28	05APR83	14.7	7.6	1300	984	372	35	79	0.35	200	436	-0.01	8.2	.	432	.	1.6	0.45	-0.01	0.22

OBS	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
27	16	.	4	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
28	8	.	6	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

REPORT YEAR=1983 TYPE=UPPER AQUIFER STATION=GS-MDP2CU

OBS	DATE	TEMP	PH	SPC_COND	TDS	ALK	CA	MG	K	NA	HCO3	CO3	CL	NO2	SO4	SO3	F	NH3	PO4
29	10JAN83	1.6	7.7	1500	1102	472	48	88	0.42	180	569	-0.01	10.8	.	432	.	1.80	0.25	-0.01
30	04APR83	15.1	7.7	1700	1260	469	69	110	1.05	210	540	-0.01	15.7	.	570	.	1.01	0.65	-0.01

OBS	B	SIO2	FE	DOC	AS	SE	V	MOL	HG	AL	BA	BE	BI	BR	CD	CR	CU	GA	GE	PB	LI	MN	NI	SR	TI	ZN	ZR
29	0.37	29	.	9	0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30	0.28	32	.	7	-0.01	-0.01	-0.1	-0.1	-0.3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Table 1

Water Chemistry Data for January-June 1983
Falling Outside the Screening Levels

Location	Date	Parameter	Measurement	Screening Levels Max	P05	P95
GS-D1U	12 JAN 83	TDS	1010	964	890	964
		Ca	84	50	26	50
		Mg	80	92	81	92
		K	.21	.32	.26	.32
		Na	120	160	150	160
		F	.50	1.06	.76	1.06
		SIO_2	33	28	22	28
		B	.11	.32	.21	.32
	04 APR 83	Ca	78	50	26	50
		Na	120	160	150	160
		Cl	6.2	11.1	7.6	11.1
		F	.52	1.06	.76	1.06
		SIO_2	30	28	22	28
GS-D3U	11 JAN 83	TDS	1022	944	912	944
		Ca	40	28	21	28
		Na	180	200	190	200
		SO_4	399	360	325	360
		NH_3	.33	.22	.06	.22
		B	.20	.27	.21	.27
	05 APR 83	SO_4	432	360	325	360
		TDS	984	944	912	944
		ALK	372	465	419	465
		Ca	35	28	21	28
		Mg	79	77	61	77
		K	.35	.44	.40	.44
		H_2CO_3	436	540	477	540
		F	1.60	2.66	1.94	2.66
		NH_3	.45	.22	.06	.22
		SIO_2	8	20	15	20
GS-MDP2CU	10 JAN 83	B	.37	.33	.23	.33
	04 APR 83	K	1.05	.55	.42	.55
		Na	210	200	180	200
		Cl	15.7	11.1	5.7	11.1
		F	1.01	2.48	1.47	2.48
		NH_3	.65	.34	.16	.34
CE-709	11 JAN 83	SIO_2	37	36	23	36
CE-702U	05 APR 83	ALK	519	499	397	499
		K	.30	1.75	.40	1.75
		H_2CO_3	611	607	399	605

Table 1 (continued)

Location	Date	Parameter	Measurement	Screening Levels Max	P05	P95
GS-S28AD	06 JAN 83	TDS	2084	2664	2198	2664
		ALK	646	642	500	642
GS-S28D	06 JAN 83	ALK	621	617	560	617
		H_2CO_3	735	723	668	723
		SO_4	790	783	470	783
		DOC	12	8	5	8
GS-S22	06 JAN 83	ALK	629	619	559	619
		Ca	105	100	75	100
		Mg	151	180	160	180
		Na	313	310	270	310
		H_2CO_3	742	726	659	726
		Cl	24.5	30.0	25.9	30.0
		DOC	12	10	4	10
GS-S24	06 JAN 83	Na	191	180	160	180
		H_2CO_3	666	644	615	644
GS-S27S	05 JAN 83	ALK	554	526	429	526
		Na	154	150	120	150
		H_2CO_3	658	617	503	617
		SO_4	409	547	418	547
		NH_3	1.64	.96	.04	.96
		PO_4	.18	.13	.04	.13
	05 APR 83	Cl	11.8	18.0	12.1	18.0
		NO_3	.4	.2	.1	.2
		NH_3	3.03	.96	.04	.96
		F	.70	.62	.20	.62
		PO_4	.16	.13	.04	.13
GS-S8	05 JAN 83	DOC	11	8	4	8
YBOXFL	24 JAN 83	TDS	1032	1031	918	1031
		Ca	82	80	74	80
		K	1.31	1.40	1.32	1.40
		Na	180	170	150	170
		B	.24	.22	.10	.22
		SIO_2	19	25	21	25
		DOC	4	10	7	10
	11 APR 83	TDS	1107	1031	918	1031
		ALK	441	483	443	483
		Ca	83	80	74	80
		Na	180	170	150	170
		F	.80	.73	.12	.73
		B	.25	.22	.10	.22
		DOC	5	10	7	10

Table 1 (continued)

Location	Date	Parameter	Measurement	Screening Levels Max	P05	P95
YMET3	24 JAN 83	F	.50	.92	.51	.92
		SIO_2	18	24	23	24
	11 APR 83	TDS	1074	1052	930	1052
YSEOFL	24 JAN 83	Ca	113	110	27	110
		K	1.70	10.00	1.71	10.00

APPENDIX 5-5

U.S.G.S. Water Chemistry Data - 1983

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATIONS
WATER CHEMISTRY DATA

SAMPLE MONTH=JANUARY REPORT YEAR=1982 STAT=D-CORRAL GULCH - EAST

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RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATIONS
WATER CHEMISTRY DATA

SAMPLE MONTH=FEBRUARY REPORT YEAR=1982 STAT=E-RINKY DINK GULCH

O	DATE	TURB	TURB	COLOR	SPCN	DISCHARGE	BOD 5 DAY	COD	PH	CALCIUM	CHLORIDE	TOT HARD AS CACO3	TOT DISS SOLIDS	TOT SUSP SOLIDS	NITRATE NITROGEN	NITRITE NITROGEN	KJELDAHL NITROGEN	TOTAL NITROGEN	TOTAL PHOSPHATE	DISSOLVED PHOSPHATE	DISSOLVED SILICA	SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM	TOT ALKALINITY AS CACO3	SULFATE	TOT RECOVERABLE ARSENIC	TOT RECOVERABLE BARIUM	TOT RECOVERABLE CADMIUM	TOT RECOVERABLE CHROMIUM	TOT RECOVERABLE COPPER	TOT RECOVERABLE IRON	TOT RECOVERABLE LEAD	TOT RECOVERABLE MANGANESE	TOT RECOVERABLE MERCURY	TOT RECOVERABLE NICKEL	TOT RECOVERABLE SELENIUM	TOT RECOVERABLE SILVER	TOT RECOVERABLE ZINC	FLUORIDE
3	22FEB82	.	.	.	85	.	.	7	7.6	.	47	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40	0	13	1.9	3.6

O	SAMPLE TYPE	NITRATE NITROGEN	SODIUM ADSORPTION RATIO	CALCIUM	CHLORIDE	FLUORIDE	MAGNESIUM	NITRATE NITROGEN	NITRITE NITROGEN	PH	POTASSIUM	SODIUM	TOT ALKALINITY AS CACO3	TOT DISS SOLIDS	TOT HARD AS CACO3	TOT RECOVERABLE ARSENIC	TOT RECOVERABLE BARIUM	TOT RECOVERABLE CADMIUM	TOT RECOVERABLE CHROMIUM	TOT RECOVERABLE COPPER	TOT RECOVERABLE IRON	TOT RECOVERABLE LEAD	TOT RECOVERABLE MANGANESE	TOT RECOVERABLE MERCURY	TOT RECOVERABLE NICKEL	TOT RECOVERABLE SELENIUM	TOT RECOVERABLE SILVER	TOT RECOVERABLE ZINC	TOTAL NITROGEN	TOTAL PHOSPHATE	SULFATE
3	0.3	15	.	3.3	1.4	7	0	3	.	.	.	.	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	61	.	.	.	.	.	1.1

SAMPLE MONTH=FEBRUARY REPORT YEAR=1982 STAT=D-CORRAL GULCH - EAST

O	DATE	TURB	TURB	COLOR	SPCN	DISCHARGE	BOD 5 DAY	COD	PH	CALCIUM	CHLORIDE	TOT HARD AS CACO3	TOT DISS SOLIDS	TOT SUSP SOLIDS	NITRATE NITROGEN	NITRITE NITROGEN	KJELDAHL NITROGEN	TOTAL NITROGEN	TOTAL PHOSPHATE	DISSOLVED PHOSPHATE	DISSOLVED SILICA	SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM	TOT ALKALINITY AS CACO3	SULFATE	TOT RECOVERABLE ARSENIC	TOT RECOVERABLE BARIUM	TOT RECOVERABLE CADMIUM	TOT RECOVERABLE CHROMIUM	TOT RECOVERABLE COPPER	TOT RECOVERABLE IRON	TOT RECOVERABLE LEAD	TOT RECOVERABLE MANGANESE	TOT RECOVERABLE MERCURY	TOT RECOVERABLE NICKEL	TOT RECOVERABLE SELENIUM	TOT RECOVERABLE SILVER	TOT RECOVERABLE ZINC	FLUORIDE
4	18FEB82	.	.	.	1320	5.6	.	7	7.9	.	470	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4.9	.	.	.	480	10	80	68	170	3.8

O	SAMPLE TYPE	NITRATE NITROGEN	SODIUM ADSORPTION RATIO	CALCIUM	CHLORIDE	FLUORIDE	MAGNESIUM	NITRATE NITROGEN	NITRITE NITROGEN	PH	POTASSIUM	SODIUM	TOT ALKALINITY AS CACO3	TOT DISS SOLIDS	TOT HARD AS CACO3	TOT RECOVERABLE ARSENIC	TOT RECOVERABLE BARIUM	TOT RECOVERABLE CADMIUM	TOT RECOVERABLE CHROMIUM	TOT RECOVERABLE COPPER	TOT RECOVERABLE IRON	TOT RECOVERABLE LEAD	TOT RECOVERABLE MANGANESE	TOT RECOVERABLE MERCURY	TOT RECOVERABLE NICKEL	TOT RECOVERABLE SELENIUM	TOT RECOVERABLE SILVER	TOT RECOVERABLE ZINC	TOTAL NITROGEN	TOTAL PHOSPHATE	SULFATE
4	43	.	1.7	9.9	380	0.6	24	.	.	.	.	140	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1020	1.7	1.4	.	.	.	0.62

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATIONS
WATER CHEMISTRY DATA

SAMPLE MONTH=FEBRUARY REPORT YEAR=1982 STAT=F-LOWER YELLOW CREEK

OBS	DATE	TURB 70	TUR 6	COL OR	SPC ON	DO	BOD 5	COD 5	PO4 2	CAL K	HCO3	CO3	NO3	TOT NH3	TOT ORG N	TOT ORG C	TOT P	TOT DIS P	DO	SUS SOL	CYA NIT	TDS	TH CA	TH MG	NCAS	NMG	NA
5	17FEB82	.	.	.	2600	11.3	.	8	8.5	.	1480	.	.	.	.	.	.	.	.	.	.	14	.	.	.	540	0	35	110	550
6	22FEB82	.	4800	.	460	10.5	.	.	8.2	.	200	.	.	.	0	.	.	1.7	0.25	.	.	1.9	.	.	.	.	0.17	.	.	12	.	-0.01	0.5	.	73	0	11	11	89

OBS	SAR	PER NA	K	CL	SO4	F	SIO2	ABS	BOD	COD	CAL	MON	ARS	ZN	SAL	GRS	GRL	SLD	TDS	ORG LOI	TFC COL	TFC ECO	PH	FLO W
5	10.0	69	.	4.6	84.0	520	1.7	15.0	.	.	.	740	.	.	.	.	.	.	.	1	.	.	130	81	.	.	1990	15	2.70	.	.	.	.	.	2.8
6	5.2	71	.	5.0	9.1	75	0.3	6.6	3	.	.	90	.	.	.	.	.	.	.	1	.	.	.	.	5	0	327	108	0.44	.	.	.	.	.	122.0

SAMPLE MONTH=MARCH REPORT YEAR=1982 STAT=D-CORRAL GULCH - EAST

OBS	DATE	TURB 70	TUR 6	COL OR	SPC ON	DO	BOD 5	COD 5	PO4 2	CAL K	HCO3	CO3	NO3	TOT NH3	TOT ORG N	TOT ORG C	TOT P	TOT DIS P	DO	SUS SOL	CYA NIT	TDS	TH CA	TH MG	NCAS	NMG	NA
7	24MAR82	.	.	.	1400	6.6	.	7	7.8	.	380	.	.	.	.	.	.	.	.	.	.	4.3	.	.	.	450	71	75	64	160	3.7

OBS	SAR	PER NA	K	CL	SO4	F	SIO2	ABS	BOD	COD	CAL	MON	ARS	ZN	SAL	GRS	GRL	SLD	TDS	ORG LOI	TFC COL	TFC ECO	PH	FLO W
7	44	.	1.4	10	390	0.6	23	.	.	.	.	140	.	.	.	.	.	.	.	.	.	.	953	1.3	1.3	.	.	.	.	.	0.5

RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATIONS
WATER CHEMISTRY DATA

SAMPLE MONTH=APRIL REPORT YEAR=1982 STAT=C-BOX ELDER GULCH - WEST

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RIO BLANCO OIL SHALE COMPANY
ENVIRONMENTAL HYDROLOGY MONITORING PROGRAM
UNITED STATES GEOLOGICAL SURVEY GAUGING STATIONS
WATER CHEMISTRY DATA

SAMPLE MONTH=MAY REPORT YEAR=1982 STAT=B-CORRAL GULCH - WEST

| O | DATE | TURB 78 | TUR 06 | TUC RAR | SOL DIS | BOD 05 | CHE 03 | CHE 30 | CHL 06 | COL 01 | COL 02 | CON 01 | DIS 01 | DIS 02 | DIS 03 | DIS 04 | DIS 05 | DIS 06 | DIS 07 | DIS 08 | DIS 09 | DIS 10 | DIS 11 | DIS 12 | DIS 13 | DIS

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WATER CHEMISTRY DATA

SAMPLE MONTH=JUNE REPORT YEAR=1982 STAT=D-CORRAL GULCH - EAST

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SAMPLE MONTH=SEPTEMBER REPORT YEAR=1982 STAT=B-CORRAL GULCH - WEST

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SAMPLE MONTH=SEPTEMBER REPORT YEAR=1982 STAT=F-LOWER YELLOW CREEK

OBS	DATE	TURB 70	TURB 06	COLOR	SPC ON		BOD 00	BOD 05	PH	COD 24	ALK	HCO3	CO3	TOT ALK	CA	MG	NA	K	SO4	CL	F	NO3 NO2	NH3	ORG N	TOT N	TOT P	DISS P	DISS SIO2	TDS 180	TDS CALC	SUSP SED	SUSP VOL	SCAN ELEC	TEMP	DISS O2	PH	TOT HARD	NONCARB HARD	CA HARD	MG HARD	SODIUM ADS RATIO	PERCENT SODIUM
16	22SEP82	.	.	.	3200	11.6	.	8	8.8	.	1210	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7.1	.	.	.	470	.	30	97	670

OBS	SAR	PERCENT NA	K	CL	SPC 04	F	SIO2	BORON	DISS SOLIDS CALC	DISS SOLIDS DRIED	DISS SOLIDS RESIDUE	MO	NO2 NO3	V	ZN	SR	AG	GLY	LSI	TEMP	ZN DISS	COLOR	TOT CONC LOSS	FIX CONC LOSS	PH ELEC	PHEN ALK	TOT ALK	TOT HARD	CA HARD	MG HARD	NONCARB HARD	NH3	NO2 NO3	ORG N	TOT N	TOT P	DISS P	DISS SIO2	FLOW
16	13	.	.	3.2	120	490	0.3	9.2	.	.	.	.	870	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2150	.	2.9	.	.	.	.	2

Form 1279–3
(June 1984)

BORROWER

TN 859 .C64 R56 Jan.
June 83
Modular development
monitoring report

DATE LOANED	BORROWER

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